

**REPORT OF
INTERIM REMEDIAL ACTIONS
Former Gasoline Service Station
575 Paseo Grande
San Lorenzo, California**

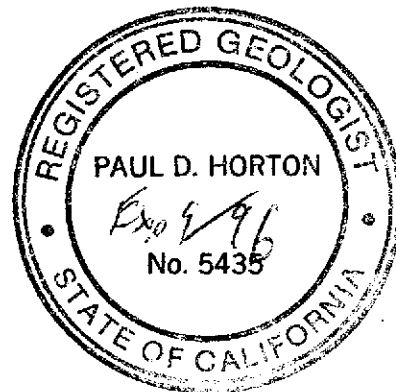
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1.0 INTRODUCTION

This report presents the results of interim remedial actions and preliminary groundwater characterization activities conducted at 575 Paseo Grande in San Lorenzo, California (the Site) (Figures 1 and 2). This Site is part of a strip type shopping mall and has been a parking lot for the last 25 years. This work included excavation of soil impacted with gasoline and heavy end hydrocarbons and the installation of three groundwater monitor wells. This scope-of-work was conducted in accordance with the *SECOR* International Incorporated (*SECOR*) September 14, 1995, "Workplan for Interim Remedial Actions and Preliminary Groundwater Characterization" and on the *SECOR* September 29, 1995, "Work Plan Addendum for Interim Remedial Actions."

2.0 BACKGROUND

The site has been an asphalt paved parking area for the last 25 years. The site was a gasoline station prior to 1969. Little information is known about the site history related to its use as a gasoline service station. In anticipation of property redevelopment, initial investigation activities were conducted in March 1995 at the Site to determine if underground facilities remain from past Site use as a gasoline service station. The work was conducted by Twining Laboratories, Inc. (TLI) as documented in their letter report dated April 15, 1995. The work conducted included a magnetometer survey followed by an exploratory excavation. In summary, the work conducted identified former gasoline service station facilities which include what appears to be the former tank pit, approximately 110 feet of fuel delivery system piping, and what appears to have been a grease sump and/or hydraulic lift pit in an area which may have been the former service garage. Field evidence and one soil sample indicated the potential for soil contamination along the piping runs, around the grease sump, and around the inferred location of the former tank pit. Characterization of the magnitude and extent of potential soil contamination was not conducted. The excavations at the Site were left open and the excavated soil and debris stockpiled.

In June 1995, *SECOR* conducted additional activities at the Site which included removal of former underground storage tank (UST) system piping and the former grease sump and characterization soil sampling along piping lines and around the former grease sump and former tank pit areas. This work was summarized in *SECOR*'s letter report dated June 29, 1995. The characterization data from this investigation indicated that there were two areas of concern at the Site. These areas were the former grease sump area and the former gasoline distribution system area. The major area of soil impact was around the former sump. Soil around the former gasoline tank location and along one of the piping trenches had been impacted with total petroleum hydrocarbons (TPH) above 100 parts per million (ppm). Soil around the former grease sump was impacted by waste oil range hydrocarbons. The initial sampling indicated that both areas were impacted with some heavy metal compounds which include lead and chromium.

Based on the lead concentrations reported for samples collected as described above, additional soil sampling was conducted by *SECOR* on July 26, 1995, to determine if lead concentrations detected are naturally occurring or are related to gasoline contamination. A total of three soil samples were collected, one from the tank pit area, one from the grease sump, and one from a background location. The pit and sump soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), waste extraction test (WET) for lead, barium, cadmium, chromium, cobalt, copper, nickel, vanadium, and zinc. The former grease sump sample was also analyzed for volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8240. The background sample was analyzed for total lead and organic lead. The concentrations of lead reported for these samples from both the contaminated areas and the background area are much lower than those reported for the characterization samples collected in June 1995. The results from this sampling indicate values that are more consistent with concentrations found at a "typical" gas station site, indicating that the initial analytical results for metals may have been erroneously elevated.

greater lead levels contained in Sept 95 report

3.0 SCOPE OF WORK

Source removal activities were conducted in the areas associated with the former fuel USTs, product islands, product piping, and sumps. Approximately 1,110 cubic yards of impacted soil were excavated from the Site. Approximately 560 cubic yards of excavated soil were shipped off to BFI's Vasco Road disposal facility because they contained heavy end hydrocarbons which can not be readily aerated. The remaining soil is currently stockpiled on Site pending creation of a soil aeration treatment cell.

To begin groundwater characterization, three groundwater monitor wells were installed at the Site to determine the quality of the groundwater beneath the Site and to determine the magnitude and direction of the groundwater gradient.

The following tasks were implemented as part of the interim remedial actions and preliminary groundwater characterization activities for the Site:

- Pre-field work which consisted of preparing a Site Health and Safety Plan per Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1910.120 and obtaining a drilling permit for monitor well installation.
- Excavation and off-Site disposal of soils containing TPH concentrations in excess of 10 to 100 ppm from the former sump location.
- Excavation and stockpiling of soils containing TPH concentrations in excess of 10 to 100 ppm from the former UST/piping areas.
- Site Restoration which included backfilling and compaction of the excavation.
- Installation of three monitor wells at the Site to determine groundwater conditions and flow direction.

3.1 Pre-Field Work

Prior to implementation of field work at the Site, a Site Health and Safety Plan was prepared. This safety plan reflects the safety issues related to monitor well installation and soil excavation. The safety plan complies with the requirements of OSHA standard 29 outlined in CFR 1910.120.

Drilling Permit 96341 for monitor well installation was obtained from the Alameda County Flood Control and Water Conservation District - Zone 7. A copy of the drilling permit is included in Appendix A.

3.2 Soil Excavation - Former Sump Location

Because impacted soils surrounding the former sump contained non-aeratable petroleum hydrocarbons (i.e., total petroleum hydrocarbons as motor oil [TPHmo], and total petroleum hydrocarbon as kerosene [TPHk]), they were excavated and disposed of off-Site at BFI's Vasco Road disposal facility. *JEG*

3.2.1 Excavation and Confirmation Sampling

The excavation was conducted utilizing a backhoe which first removed the existing asphalt and concrete and then temporarily stockpiled the soil on-Site pending off-Site disposal. The asphalt and concrete debris was shipped off-Site to a recycling facility. Approximately 560 cubic yards of soil were excavated and disposed of from this excavation. Grab soil samples were collected on a regular basis from the backhoe bucket and field screened with a photo-ionization detector (PID) to determine when the limits of the impacted soil had been reached. The excavation was deepened until groundwater was encountered at approximately 9 feet below ground surface (bgs). *W. J. ...*

Once the limits of the excavation had been reached, confirmation soil samples were collected from the sidewalls of the excavation for every 20 linear feet of excavation. These samples were analyzed for a hydrocarbon scan by modified EPA Method 8015, TPH by EPA Method 418.1, BTEX by EPA Method 8020, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and metals by EPA Method 6000/7000 series. Bottom samples were not collected from the excavation because groundwater was present. Sample locations were documented and are shown on Figure 2.

Upon completion, the specific limits of the excavation were documented by a licensed surveyor and with photographs.

3.2.2 Concrete Sump

A second concrete sump was encountered during excavation activities conducted in the area of the original sump. This second sump was removed, cleaned, and shipped off-Site for disposal. Piping from the sump, which extended from the sump to the street gutter along Paseo Grande, was removed, cleaned, and disposed of. Soil samples were collected beneath the second sump and beneath the former piping. Copies of the disposal and shipping papers are presented in Appendix B.

3.2.3 Soil Profiling and Disposal

Six soil samples were collected from the stockpiled soil generated from excavation activities in the area of the former sumps. These samples were collected for waste profiling purposes and were analyzed for TPH by EPA Method 418.1 and BTEX by EPA Method 8020. Additionally, one sample was analyzed for SVOCs by EPA Method 8270, and reactivity, corrosivity, and ignitability (RCI), and two samples were analyzed for metals by EPA Method 6000/7000 series.

The analytical results for the stockpiled soil samples were used to profile the excavated material for disposal at an appropriate facility. Once the excavated material had been profiled, it was loaded and transported for proper disposal at BFI's Vasco Road disposal facility. Copies of the disposal and shipping papers are presented in Appendix B.

3.3 Soil Excavation-UST Pit and Pipeline Area

Two excavations were created in this area, one was around the former piping and pump islands, the other was in the vicinity of the former UST. All soil containing TPHg concentration in excess of 10 ppm in the former tank pit/product lines excavations was excavated as feasible.

3.3.1 Excavation and Confirmation Sampling

The excavations were conducted utilizing a backhoe which first removed the existing asphalt and concrete and then temporarily stockpiled the soil on-Site pending creation of a soil aeration treatment cell. The asphalt and concrete debris was shipped off-Site to a recycling facility. Approximately 370 cubic yards of soil were removed from the pipeline/pump island excavation and approximately 180 cubic yards of soil were removed from the UST excavation. Grab soil samples were collected on a regular basis from the backhoe bucket and field screened with a PID to determine when the limits of the impacted soil had been reached. The UST excavation was deepened until all the impacted soil in the vertical direction had been removed at approximately 5.5 feet bgs. The product line/pump island excavation was deepened until groundwater was encountered at approximately 7 feet bgs (the depth-to-groundwater had decreased because of the recent rain events). Once the limits of the excavation were reached, confirmation soil samples were collected from the sidewalls of the excavation for every 20 linear feet of excavation. These samples were analyzed for a hydrocarbon scan by modified EPA Method 8015, BTEX by EPA Method 8020, and metals by EPA Method 6000/7000 series. Additionally, 14 samples from the product line/pump island excavation and all the samples from the UST excavation were analyzed for TPH by EPA Method 418.1. Bottom samples were not collected in the pump island excavation because groundwater was present. Sample locations were documented and are shown on Figure 2.

Upon completion, the specific limits of the excavation were documented by a licensed surveyor and with photographs.

3.3.2 Soil Aeration

The stockpiled soil will be spread out as fill material for the top layer of backfill for a former basement which has been demolished as part of re-development of the adjacent shopping center. The soil will be spread out in a layer approximately 1 foot thick. The treatment area will be enclosed with a locking chain link fence with proper Proposition 65 signage posted. The soil will then be aerated in accordance with Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 40 regarding the uncontrolled emission of volatile organics from soil aeration. The soil will be turned weekly to enhance and expedite the aeration process. Confirmation sampling will be conducted as deemed appropriate based on field headspace readings using a PID. EPA SW846 methodology will be used to determine the appropriate number of samples to collect. The samples will be analyzed in a California-certified laboratory for TPHg and BTEX by modified EPA Methods 8015/8020.

3.4 Site Restoration

The completed excavations were backfilled with imported clean fill material. The presence of groundwater and surface water runoff from the rains required that the sump excavation and the pipeline/pump island excavation be dewatered during backfilling activities. A discharge permit was obtained from the Oro Loma Sanitary District to discharge the treated water to the sanitary sewer. The water was treated by pumping it through a 1,000-pound carbon vessel prior to discharge. A copy of the discharge permit is included in Appendix C. The sump and product line/pump island excavations were backfilled by dewatering the excavations, excavating sluff material from the bottom of the excavation, placing filter fabric on the bottom of the excavation, placing approximately 2 feet of pea gravel on top of the filter fabric, placing another layer of filter fabric on top of the pea gravel, and then placing Caltrans Class II aggregate base on top of the filter fabric. The aggregate base was compacted in 1 foot lifts to a minimum of 95 percent compaction in accordance with ASTM D155. The UST excavation was backfilled by placing and compacting 1 foot lifts of the aggregate base material. A copy of the compaction test reports is included in Appendix D.

3.5 Groundwater Investigation

Because soil impacts of TPH were documented above 100 ppm and the depth-to-groundwater is known to be less than 50 feet, three groundwater monitor wells were installed to determine the condition of Site groundwater. One of these monitor wells (MW-3) is located within 10 feet of the former tank pit (required by RWQCB), one monitor well (MW-2) is located near the former product line trenches, and the third monitor well (MW-1) is located near the former sump excavation.

3.5.1 Drilling And Soil Sampling

On May 10, 1996, three soil borings were drilled using a truck-mounted drill rig equipped with 7.5-inch outside diameter hollow stem augers (Figure 3). Continuous cores were collected from each boring using a 3.5-inch diameter by 5-foot long core barrel. The cores were logged in the field by a geologist to produce an accurate lithologic and stratigraphic profile. The soil borings were drilled to a total depth of approximately 15 feet bgs, which is approximately 5 feet below the first encountered groundwater. *What? Only a 5-foot screen?*

The soil cores were field screened using a PID equipped with a 10.2 eV lamp. Soil samples were collected from the cores in brass tubes and sealed with Teflon tape, plastic caps and tape. The soil samples were labeled with the appropriate borehole information, time and date of collection, and placed on ice for subsequent transport and analysis at a State-certified analytical laboratory. These samples were analyzed for a hydrocarbon scan by modified EPA Method 8015, BTEX by EPA Method 8020, SVOCs by EPA Method 8270, VOCs by EPA Method 8010, and metals by EPA Method 6000/7000 series. Chain-of-custody procedures were followed at all times.

3.5.2 Monitor Well Installation

On May 10, 1996, groundwater monitor wells were installed in the three borings drilled to approximately 15 feet bgs. The wells were constructed of 2-inch diameter, 0.020-inch machine slotted, Schedule 40 polyvinyl chloride (PVC) well screen. The well screen was installed from the bottom of the borehole to approximately 5 feet above the discovered potentiometric surface. Two-inch diameter blank PVC casing was used to complete the wells from the top of the screened interval to within 1-foot of surface grade. A gravel pack consisting of #2/12 Monterey sand was placed in the annular space from the bottom of the boring to approximately 2 feet above the screened interval. A sanitary seal consisting of hydrated bentonite slurry followed by cement slurry was placed on top of the gravel pack to surface grade. The monitor wells were completed at surface grade with a watertight traffic-rated street box set in cement and a watertight locking well cap. A well identification number will be permanently affixed to the inside of the street box. Copies of the soil boring logs are presented in Appendix E.

3.5.3 Monitor Well Development and Surveying

On May 14, 1996, the wells were developed by using a PVC bailer to alternately surge the screened portion of the well bore and purge the sediment laden water. Development continued until 5 to 10 well volumes of groundwater had been removed and/or the water produced was relatively sediment free. On May 22, 1996, the completed groundwater monitor wells were surveyed to a baseline datum (mean sea level). Copies of the well development field sheets and the surveyors report are presented in Appendix F.

3.5.4 Groundwater Monitoring and Sampling

On May 17, 1996, depth-to-groundwater was obtained from the casing elevations using a water level indicator graduated to 0.01 foot. The depth-to-groundwater measurements were converted to a groundwater elevation for each well. Following monitoring, each existing well was purged by hand bailing at least four well volumes. Copies of the purge data sheets are presented in Appendix F.

After allowing the water levels in the monitor wells to recover to at least 80 percent of its static level, groundwater samples were collected using a disposable PVC bailer and were decanted into laboratory supplied sample containers. Samples were tightly capped with zero headspace, then labeled with the sample number, sample time and date, and immediately placed on ice in an insulated cooler. The samples were logged onto a chain-of-custody manifest for subsequent delivery to a State-certified laboratory. These samples were analyzed for a hydrocarbon scan by modified EPA Method 8015, BTEX by EPA Method 8020, SVOCs by EPA Method 8270, VOCs by EPA Method 8010, and metals by EPA Method 6000/7000 series.

3.5.5 Decontamination Procedures

During drilling operations, clean augers, sampling tools, and downhole equipment were used for each boring. The used equipment was taken back to the drillers shop for decontamination. All soil cuttings generated during the drilling operations was stockpiled on-Site pending laboratory analysis for a determination of proper disposal. Prior to using any equipment in a monitor well, the equipment was decontaminated by double-washing with a laboratory grade detergent in clean water and triple-rinsing using deionized water. All purge water generated during groundwater sampling procedures is contained on-Site in 55 gallon drums pending proper disposal.

4.0 RESULTS

The following sections discuss the results obtained during the excavation and groundwater characterization activities conducted at the Site.

4.1 Sump Excavation

A summary of the analytical results for the soil samples collected from the sump excavation is presented in Tables 1 and 2. Sampling locations are depicted on Figure 2. These data document the removal of all soil containing TPH concentrations greater than 100 ppm. SVOCs were not detected in any of the soil samples collected from the sump excavation which were analyzed by EPA Method 8270. The results from the hydrocarbon scan analyses indicates that the majority of the TPH detected in soil samples from this excavation were in the range of motor oil. No BTEX compounds were detected in any of the soil samples collected from the sump excavation. The concentrations of metals were well below those concentrations originally reported and are representative of typical background concentrations in soil (Dragun, 1988). Of the samples which represent the final limits of the excavation, no metal concentrations exceeded ten times the respective soluble threshold limit concentration (STLC). Copies of the analytical reports are included as Appendix G. The analytical reports in Appendix G are in chronological order. Refer to the sample date in the appropriate table to facilitate locating the corresponding laboratory report in the appendix.

Soil samples S-EW-4 and S-PL were collected from beneath the second sump and beneath the piping from the sump to the street, respectively. Results from these samples indicates that the soil around the former second sump was not impacted with TPH above 100 mg/kg and that the piping did not leak.

4.1.1 Soil Profiling and Disposal

Results from the temporarily stockpiled sump area excavation soil are summarized in Tables 3 and 4. These data indicated that TPH concentrations in the excavated soil from the former sump area ranged up to 3,700 mg/kg. BTEX compounds were detected in four of the six samples analyzed. Benzene was only detected in one soil sample at 0.084 mg/kg. The metals concentrations were below ten times the STLC. Low levels of naphthalene (1.3 mg/kg) and 2-methyl naphthalene (0.28 mg/kg) were detected in soil sample SP-A which was analyzed for SVOCs. The results for the sample analyzed for RCI were within allowable levels. Copies of the analytical reports are included as Appendix G. The analytical reports in Appendix G are in chronological order. Refer to the sample date in the appropriate table to facilitate locating the corresponding laboratory report in the appendix.

4.2 Product Lines/Pump Island Excavation

Results from the product lines/pump island excavation are summarized in Tables 5 and 6. Sampling locations are depicted on Figure 2. These data indicate that, with the exception of the southern wall of the excavation, the soil impacted above 10 ppm was excavated. A natural gas line runs along the southern sidewall adjacent to Paseo Grande. The close proximity of this gas line prohibited the removal of all the impacted soil along the southern wall of the excavation. The results from the hydrocarbon scan analyses indicates that the majority of the TPH detected in soil samples from this excavation were in the range of gasoline. BTEX compounds were detected in soil samples collected from this excavation. The maximum benzene concentration was reported at 0.41 mg/kg in sample U-F-1. The soil in this location was subsequently excavated. The maximum remaining benzene concentration is 0.069 mg/kg. Copies of the analytical reports are included as Appendix G. The analytical reports in Appendix G are in chronological order. Refer to the sample date in the appropriate table to facilitate locating the corresponding laboratory report in the appendix.

4.3 UST Excavation

Results from the UST excavation are summarized in Tables 7 and 8. This excavation was completed to a depth of approximately 5.5 feet bgs because the gasoline impacts did not extend to groundwater. During excavation, debris such as an old tire, asphalt chunks, pieces of metal pipe, etc., were uncovered and removed. This debris was probably introduced into the subsurface as backfill when the USTs were originally removed. ← Fill material

The analytical data document the removal of all soil with gasoline impacts greater than 10 ppm. No BTEX compounds were detected in the sidewall or bottom samples. TPH impacts, as measured by EPA Method 418.1, were reported with concentrations up to 220 mg/kg. Results from the hydrocarbon scan analyses indicate that TPHmo concentrations were reported up to 510 mg/kg. However, the laboratory reports for the hydrocarbon scan analyses stated that the TPHmo chromatogram patterns did not match the standard and appeared to be a heavier range hydrocarbon. At SECOR's request, the laboratory compared these chromatographs to the standard for asphalt. The laboratory concluded that the hydrocarbons detected in the soil samples from the UST excavation are within the range of asphalt, as stated in a memo from the laboratory which is included in Appendix G. It is SECOR's interpretation that the concentrations reported for TPH by EPA Method 418.1 and for TPHmo are the result of asphalt debris which was part of the original backfill material. This conclusion is further supported by the fact that heavier range hydrocarbons (TPHmo) were not detected in any of the water samples, including one which was collected within 10 feet of the UST excavation. Additionally, because the TPH impacts from the former sumps were shown to have terminated before reaching the area of the UST excavation, there } asphalt

is no known source of heavy range hydrocarbons in the UST area except the asphalt debris. Copies of the analytical reports are included as Appendix G. The analytical reports in Appendix G are in chronological order. Refer to the sample date in the appropriate table to facilitate locating the corresponding laboratory report in the appendix.

4.4 Monitor Well Installation Results

The following sections describe the results obtained from the soil and water samples collected during installation of the three groundwater monitor wells at the Site.

4.4.1 Soil Analytical Results

Analytical results for the soil samples collected from the monitor well borings are summarized in Tables 9 and 10. TPHg was detected at 17 mg/kg in the 10.5 feet bgs sample from monitor well MW-1 and at 480 mg/kg in the 12.5 feet bgs sample from monitor well MW-2. Benzene was not detected in any of the soil samples collected from the monitor well borings. Naphthalene was detected in the 12.5 feet bgs sample from monitor well MW-2. With the exception of naphthalene and dichloromethane (also known as methylene chloride) which was detected in all of the soil samples, no other chlorinated VOCs or SVOCs were detected. Methylene chloride is a common laboratory contaminant and is, therefore, not likely indicative of the soil. Metals concentrations did not appear to be above background levels in soil (Dragun, 1988). Copies of the analytical reports are included in Appendix H.

4.4.2 Groundwater Analytical Results

Analytical results for groundwater samples collected from the monitor wells are summarized in Table 11. TPHg was detected at 1.1 milligrams per liter (mg/l) in monitor well MW-1, at 23 mg/l in monitor well MW-2, and at 6.7 mg/l in monitor well MW-3. Benzene was detected at 900 micrograms per liter ($\mu\text{g}/\ell$) in the sample from monitor well MW-2 and at 140 $\mu\text{g}/\ell$ in the sample from monitor well MW-3. Benzene was not detected in the sample from monitor well MW-1. Low concentrations of methylene chloride (3.1 $\mu\text{g}/\ell$ in monitor well MW-2), trichloroethene (TCE) (4.5 $\mu\text{g}/\ell$ in monitor well MW-1), tetrachloroethene (PCE) (4.8 $\mu\text{g}/\ell$ in monitor well MW-1 and 0.7 $\mu\text{g}/\ell$ in monitor well MW-2) were reported in the groundwater samples. Naphthalene was detected in the samples from monitor wells MW-2 and MW-3 at 390 $\mu\text{g}/\ell$ and 60 $\mu\text{g}/\ell$, respectively. The compound 2-methyl-naphthalene was detected in monitor well MW-2 at 88 $\mu\text{g}/\ell$ and at 64 $\mu\text{g}/\ell$ in monitor well MW-3. Barium was the only metal detected in the groundwater samples, with the maximum concentration reported for monitor well MW-2 at 0.25 mg/l. Copies of the analytical reports are presented in Appendix I.

4.4.3 Groundwater Elevation Results

A summary of the groundwater elevation data is presented in Table 12. The average depth-to-groundwater at the Site on May 17, 1996, was 5.2 feet bgs, which corresponds to an average groundwater elevation of 21.46 feet above mean sea level. On May 17, 1996, groundwater at the Site was flowing towards the southeast under a gradient of 0.005 feet per foot. A potentiometric surface map showing the contours of the groundwater surface elevation is presented as Figure 3.

5.0 SUMMARY AND CONCLUSIONS

Approximately 1,110 cubic yards of soil was excavated from the Site during implementation of the interim remedial actions. Approximately 560 cubic yards from the sump excavation was shipped off-Site for disposal. The remaining 550 cubic yards is temporarily stockpiled on-Site pending creation of a soil aeration cell. One concrete sump was discovered during excavation. This sump was removed, cleaned, and shipped off-Site for disposal. Based on the confirmation soil sample results, all of the vadose zone TPH soil impacts above 100 ppm were removed, with the exceptions of the southern wall of the pipeline/pump island excavation (because the presence of a natural gas pipeline prevented additional excavation) and the asphalt debris in the UST excavation.

Three groundwater monitor wells were installed at the Site. Results from these wells indicates that groundwater beneath the Site is impacted with TPH compounds and small amounts of VOCs and SVOCs. On May 17, 1996, groundwater was flowing towards the southeast under a gradient of 0.005 feet per foot.

6.0 REFERENCES

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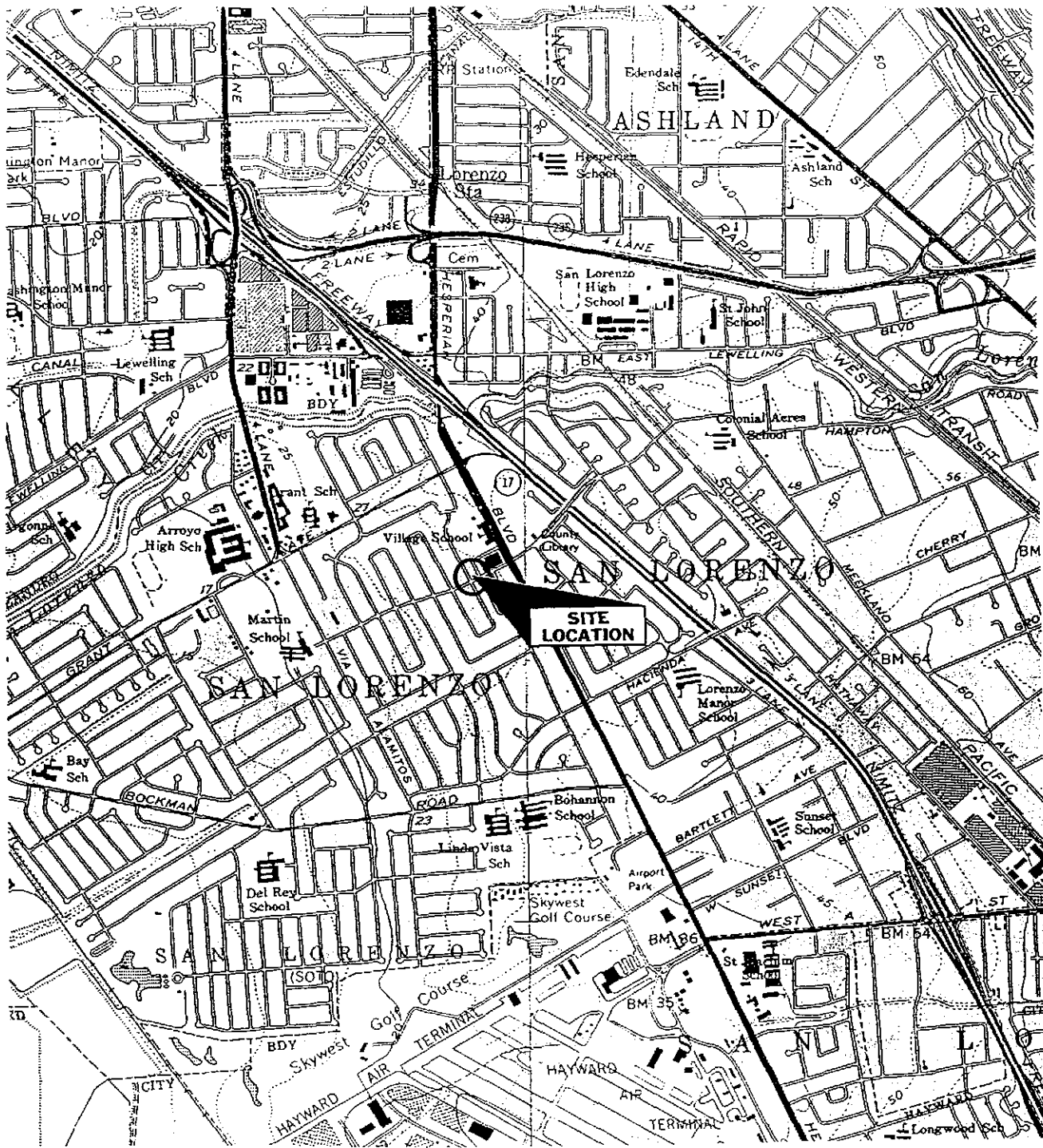
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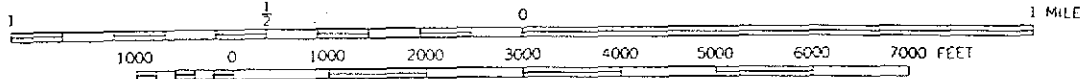
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SAN LEANDRO AND HAYWARD QUADRANGLE
 California
 7.5 Minute Series (Topographic)



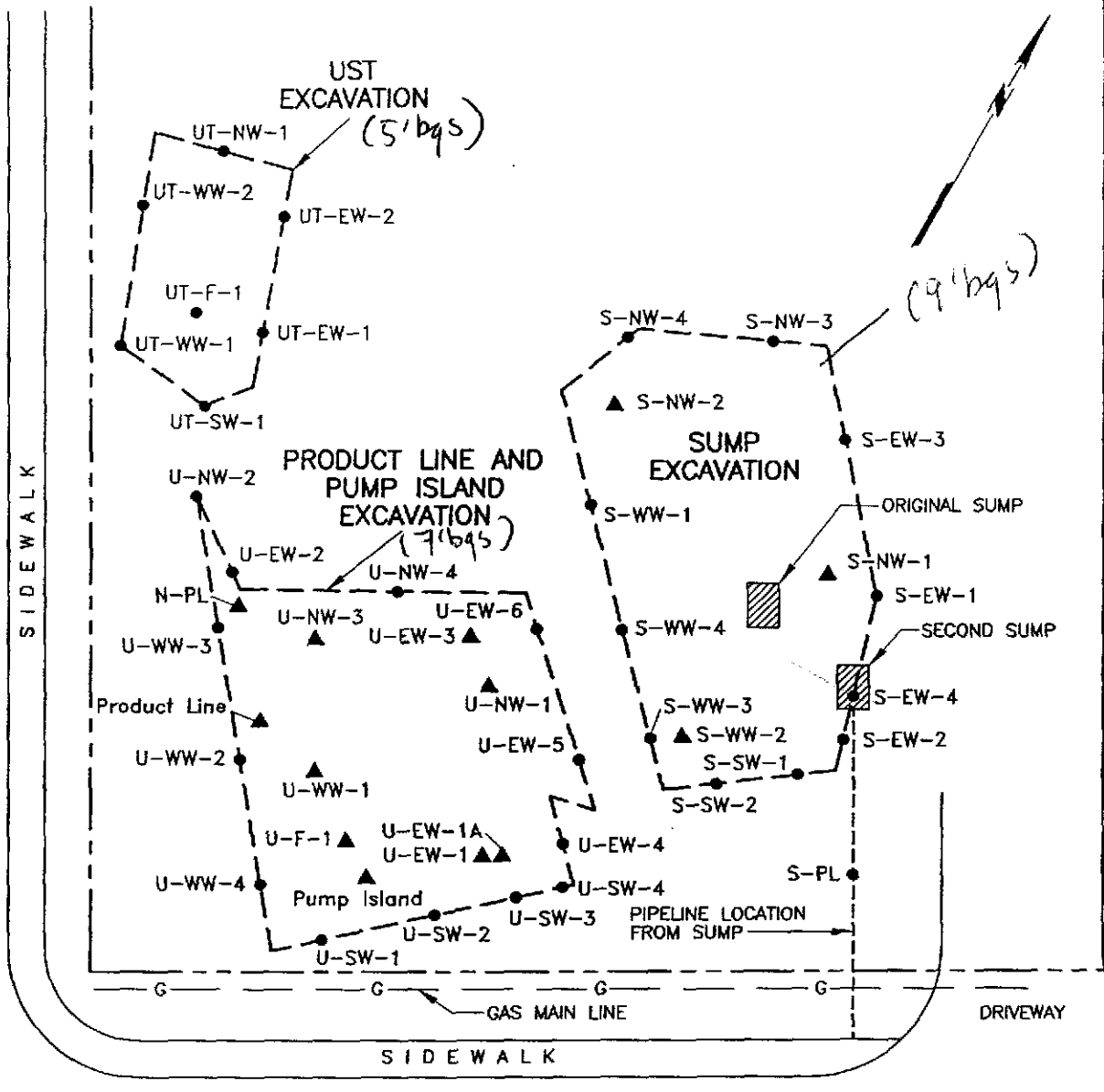
SCALE 1:24 000



DRAFTED BY: JLH	CHECKED BY: SM	PROJECT NO. 70074-001 Bohannon Development Northeast corner of Paseo Grande and Paseo Largavista San Lorenzo, California	FIGURE 1 Site Location Map	SECOR 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE: 06-16-95	REV. DATE:			
FILE NAME: slorenz.f01				

PASEO LARGAVISTA

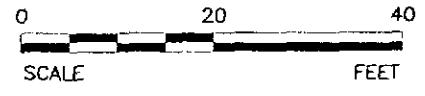
SIDEWALK



PASEO GRANDE

LEGEND:

- ▲ EXCAVATED SAMPLE LOCATION
- SAMPLE LOCATION
- LIMITS OF EXCAVATION
- - - - - APPROXIMATE PROPERTY BOUNDARY



SOURCE: NOLTE AND ASSOCIATES, INC., DATED 1996.

199605.23/4.11 X:1 JOBS\961BOHANNON\SNLORENZ\1SAMPLE

SECOR
INTERNATIONAL
INCORPORATED

DRAWN	CCR
APPR	SM
DATE	23MAY96
JOB NO.	70074-001-02

FIGURE 2
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA
SAMPLE LOCATION MAP

PASEO LARGAVISTA

SIDEWALK

Well MW-3 lies in former excavation pit according to Steve McCabe, SECOR 21.60

MW-3 (21.76)

MW-1 (21.46)

GROUNDWATER FLOW DIRECTION

21.20

MW-2 (21.17)

GAS MAIN LINE

DRIVEWAY

SIDEWALK

PASEO GRANDE

LEGEND:

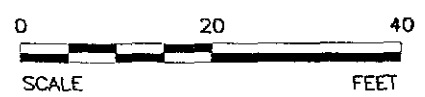
MW-1 GROUNDWATER MONITORING WELL

21.20 GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)

(21.46) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

APPROXIMATE GROUNDWATER FLOW DIRECTION

APPROXIMATE PROPERTY BOUNDARY



SOURCE: NOLTE AND ASSOCIATES, INC., DATED 1996.

199605 28 1438 X:1 JOBS\96\BOHANNON\SNLORENZ\SNLORENZ01

SECOR INTERNATIONAL INCORPORATED

DRAWN	CCR
APPR	SM
DATE	28MAY96
JOB NO.	70074-001-02

FIGURE 3
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA
**POTENTIOMETRIC SURFACE
MAP - MAY 17, 1996**

Table 1
Soil Sample Analytical Results - TPH and VOCs
Sump Excavation
575 Paseo Grande
San Lorenzo, California

Sample Name	Sample Date	Excavated	Analyte										
			Total Petroleum Hydrocarbons-as-					Benzene	Toluene	Ethyl-benzene	Total Xylenes	EPA Method	
			Gasoline	Diesel	Motor Oil	Kerosene	Mineral Spirits					8270	418.1
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
S-NW-1	11/29/95	No	7.4Y ✓	ND ✓	ND ✓	ND ✓	20 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
S-NW-2	11/30/95	Yes	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	NA
S-NW-3	12/01/95	No	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND
S-NW-4	12/01/95	No	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	NA	ND
S-SW-1	11/29/95	No	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
S-SW-2	11/30/95	No	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	NA
S-WW-1	11/29/95	No	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
S-WW-2	11/30/95	Yes	7Y ✓	33YL ✓	47 ✓	34YL ✓	15 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	91
S-WW-3	12/04/95	No	1.1 Y ✓	<1 ✓	<25 ✓	3 YL ✓	3.5 Y ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND
S-WW-4	12/08/95	No	<1 ✓	<1 ✓	<25 ✓	<1 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	NA	NA
S-EW-1	11/29/95	No	<1 ✓	<1 ✓	<25 ✓	<1 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
S-EW-2	11/29/95	No	<1 ✓	<1 ✓	<25 ✓	<1 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
S-EW-3	11/30/95	No	<1 ✓	<1 ✓	<25 ✓	<1 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	NA
S-EW-4	12/14/95	No	<1	49 YH	74 YHL	1.6 YH	NA	ND	ND	ND	ND	NA	81
S-PL	12/07/95	No	<1	<1	33 YH	ND	NA	ND	ND	ND	ND	ND	ND

Notes:

mg/Kg = milligrams per kilograms

ND = Not Detected

NA = Not Analyzed

VOCs = Volatile organic compounds

TPH = Total petroleum hydrocarbons

Y = Sample exhibits fuel pattern which does not resemble standard

L = Lighter hydrocarbons than indicated standard

H = Heavier hydrocarbons than indicated standard

Table 2
Soil Sample Analytical Results - Metals
Sump Excavation
575 Paseo Grande
San Lorenzo, California

Metal concentrations are below PHS hold concentrations.

Sample Name	Analyte																
	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Mercury (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)
S-NW-1	ND	3.9	190	0.78	1	41	9.5	19	7.2	ND	ND	47	0.48	ND	ND	29	39
S-NW-2	ND	4.1	140	0.65	0.65	36	8.1	14	6.1	ND	ND	35	0.89	ND	ND	34	32
S-NW-3	ND	3.6	200	0.81	1	48	8.7	18	7.4	ND	ND	42	0.95	ND	ND	37	38
S-SW-1	ND	4	170	0.69	0.79	33	9.9	16	7	ND	ND	40	0.31	ND	ND	23	35
S-SW-2	ND	3.8	180	0.75	0.78	44	8.6	17	6.6	ND	ND	40	0.94	ND	ND	38	36
S-WW-1	ND	4.8	160	0.64	1	37	9	17	6.3	ND	ND	43	0.35	ND	ND	31	41
S-WW-2	ND	4.4	200	0.9	0.92	54	9.9	20	7.7	ND	ND	48	1.1	ND	ND	41	42
S-WW-3	ND	5	170	0.65	1.4	43	10	18	7	0.2	ND	46	0.41	ND	ND	40	46
S-WW-4	ND	4.3	160	0.69	1.1	41	8.1	15	7.1	0.12	ND	38	0.53	ND	ND	38	37
S-EW-1	ND	3.7	170	0.66	0.86	36	7.8	16	6.3	ND	ND	39	0.29	ND	ND	25	34
S-EW-2	ND	4.1	230	0.78	1	40	11	18	7.6	ND	ND	51	0.47	ND	ND	29	38
S-EW-3	ND	3.7	150	0.74	0.75	43	8.6	17	6.9	ND	ND	41	0.81	ND	ND	33	36
S-EW-4	ND	7	160	0.82	1.4	46	13	19	7.7	ND	ND	51	NA	ND	ND	43	47
S-PL	ND	3.8	120	0.69	0.58	34	8.1	12	6	ND	ND	36	0.65	ND	ND	30	37

Notes:
mg/Kg = milligrams per kilograms
ND = Not detected

Table 3
Soil Sample Analytical Results - RCI, TPH and VOCs
Sump Stockpile
575 Paseo Grande
San Lorenzo, California

Sample Name	Sample Date	RCI	Analyte						
			EPA Method 418.1	Benzene	Toluene	Ethyl-benzene	Total Xylenes	EPA Method 8270	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Naphthalene (mg/kg)	2-methyl-naphthalene (mg/kg)
SP-A	11/28/95	NH	1200 ✓	0.084 ✓	0.016 ✓	0.38 ✓	0.394 0.394 ✓	1.3 ✓	0.28 ✓
SP-B	11/28/95	NA	3700 ✓	ND ✓	ND ✓	0.82 ✓	0.49 ✓	NA	NA
SP-C	11/30/95	NA	200	ND	ND	ND	ND	NA	NA
SP-D	11/30/95	NA	150	ND	ND	ND	0.011	NA	NA
SP-E	11/30/95	NA	1100	ND	ND	ND	ND	NA	NA
A-1	11/28/95	NA	2000 ✓	ND ✓	ND ✓	ND ✓	0.05 ✓	NA ✓	NA

Notes:

mg/Kg = milligrams per kilograms

RCI = Reactivity, Corrosivity and Ignitability

NH = Non-Hazardous (not reactive, not corrosive, not ignitable)

ND = Not Detected

NA = Not Analyzed

VOCs = Volatile organic compounds

TPH = Total Petroleum Hydrocarbons

Table 4
Soil Sample Analytical Results - Metals
Sump Stockpile
575 Paseo Grande
San Lorenzo, California

Sample Name	Analyte																
	Antimony <i>(mg/Kg)</i>	Arsenic <i>(mg/Kg)</i>	Barium <i>(mg/Kg)</i>	Beryllium <i>(mg/Kg)</i>	Cadmium <i>(mg/Kg)</i>	Chromium <i>(mg/Kg)</i>	Cobalt <i>(mg/Kg)</i>	Copper <i>(mg/Kg)</i>	Lead <i>(mg/Kg)</i>	Mercury <i>(mg/Kg)</i>	Molybdenum <i>(mg/Kg)</i>	Nickel <i>(mg/Kg)</i>	Selenium <i>(mg/Kg)</i>	Silver <i>(mg/Kg)</i>	Thallium <i>(mg/Kg)</i>	Vanadium <i>(mg/Kg)</i>	Zinc <i>(mg/Kg)</i>
SP-A	ND	5.5	180	0.75	1.1	43	9.3	18	9.5	ND	ND	45	0.56	ND	ND	37	42
A-1	ND	3.3	180	0.82	1.1	47	8.6	20	8.5	ND	ND	44	0.35	ND	ND	35	39

Notes:

mg/Kg = milligrams per kilograms

ND = Not detected

Table 5
Soil Sample Analytical Results - TPH and VOCs
Product Lines/Pump Island Excavation
575 Paseo Grande
San Lorenzo, California

Sample Name	Sample Date	Excavated	Analyte										
			Total Petroleum Hydrocarbons-as-					Benzene	Toluene	Ethyl-benzene	Total Xylenes	EPA Method	
			Gasoline (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)	Kerosene (mg/Kg)	Mineral Spirits (mg/Kg)					8270 (mg/Kg)	418.1 (mg/Kg)
U-NW-1	12/06/95	Yes	1.6 Y	ND	ND	2.9 YL	NA	0.061	ND	0.0074	ND	NA	ND
U-NW-2	12/07/95	No	ND	2.6Y	ND	ND	ND	ND	ND	ND	ND	NA	NA
U-NW-3	12/07/95	Yes	3.8Y	ND	ND	2.5Y	13 Y	0.18	ND	0.012	0.0053	NA	NA
U-NW-4	12/08/95	No	ND	ND	ND	1.1 Z	ND	ND	ND	ND	ND	NA	NA
U-SW-1	11/29/95	No	ND	ND	ND	3.2 Y	NA	ND	ND	ND	ND	ND	49
U-SW-2	12/06/95	No	1300 Y	160 YL	ND	830 YL	NA	ND	ND	24	10	NA	2300
U-SW-3	12/08/95	No	5.2Y	4.4 YL	ND	11 Y	35 Y	ND	ND	0.036	0.016	NA	NA
U-SW-4	02/06/96	No	4.7 Y	ND	ND	4.9	NA	0.033	ND	ND	ND	NA	ND
U-WW-1	12/06/95	Yes	ND	ND	ND	1.4 YL	NA	ND	ND	ND	ND	NA	ND
U-WW-2	12/07/95	No	ND	1.8Y	ND	1.6Y	2.1 Y	ND	ND	ND	ND	NA	NA
U-WW-3	12/07/95	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
U-WW-4	02/07/96	No	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND
U-EW-1	12/06/95	Yes	1500 Y	240 YL	ND	990 YL	NA	ND	ND	21	8.8	NA	4600
U-EW-1A	12/07/95	Yes	2100Y	230YL	ND	2000YL	37000 Y	ND	ND	31	14	NA	5800
U-EW-2	12/07/95	No	1.3Y	ND	ND	ND	4.3 Y	0.069	ND	ND	ND	NA	NA
U-EW-3	12/14/95	Yes	11 Y	14 YL	ND	24 YL	NA	0.14	ND	0.21	0.5	NA	28
U-EW-4	02/07/96	No	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND
U-EW-5	02/07/96	No	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND
U-EW-6	02/07/96	No	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND
U-F-1	12/07/95	Yes	27Y	11Y	ND	9Y	480 Y	0.41	0.067	0.18	0.17	NA	NA
N-PL	12/06/95	Yes	47 Y	5.2 YL	ND	27 YL	NA	ND	ND	ND	0.2	NA	130
Pump Island	12/05/95	Yes	610Y	39YL	ND	590YL	2200 Y	ND	ND	9.9	2.6	NA	1100
Product Line	12/05/95	Yes	ND	ND	ND	1.9 Y	3 Y	0.016	ND	ND	ND	NA	ND

Notes:

mg/Kg = milligrams per kilograms

Y = Sample exhibits fuel pattern which does not resemble standard

L = Lighter hydrocarbons than indicated standard

Z = Sample exhibits unknown single peak or peaks

VOCs = Volatile organic compounds

TPH = Total petroleum hydrocarbons

ND = Not detected

NA = Not Analyzed

Table 6
Soil Sample Analytical Results - Metals
Product Lines/Pump Island Excavation
575 Paseo Grande
San Lorenzo, California

Sample Name	Analyte																
	Antimony <i>(mg/Kg)</i>	Arsenic <i>(mg/Kg)</i>	Barium <i>(mg/Kg)</i>	Beryllium <i>(mg/Kg)</i>	Cadmium <i>(mg/Kg)</i>	Chromium <i>(mg/Kg)</i>	Cobalt <i>(mg/Kg)</i>	Copper <i>(mg/Kg)</i>	Lead <i>(mg/Kg)</i>	Mercury <i>(mg/Kg)</i>	Molybdenum <i>(mg/Kg)</i>	Nickel <i>(mg/Kg)</i>	Selenium <i>(mg/Kg)</i>	Silver <i>(mg/Kg)</i>	Thallium <i>(mg/Kg)</i>	Vanadium <i>(mg/Kg)</i>	Zinc <i>(mg/Kg)</i>
U-NW-2	ND	6.3	150	0.63	1.4	43	8.9	17	6.7	0.12	ND	43	0.79	ND	ND	38	48
U-NW-3	ND	5.3	160	0.64	1.3	43	10	17	7.1	0.14	ND	46	ND	ND	ND	38	45
U-NW-4	ND	4	220	0.81	1.1	45	9.8	18	7.9	0.14	ND	45	ND	ND	ND	32	40
U-SW-1	ND	3.8	110	0.54	0.81	33	7.6	14	6.6	0.11	ND	37	0.72	ND	ND	28	36
U-SW-3	ND	4.8	150	0.76	1.1	44	9.2	15	7.4	0.17	ND	43	0.38	ND	ND	45	46
U-SW-4	ND	3.9	130	0.81	0.94	40	9.4	16	6.6	ND	ND	44	ND	ND	ND	38	43
U-WW-2	ND	3.7	120	0.5	0.98	37	7.9	13	5.4	0.13	ND	40	0.36	ND	ND	33	42
U-WW-3	ND	4.2	140	0.63	1.2	39	8.7	16	6.8	0.16	ND	41	ND	ND	ND	40	44
U-WW-4	ND	3.7	120	0.57	0.57	29	7.1	13	5.3	ND	ND	33	0.65	ND	ND	23	34
U-EW-1A	ND	5.1	150	0.67	1.4	44	9.5	18	14	0.17	ND	43	0.56	ND	ND	42	46
U-EW-2	ND	4.7	140	0.62	1.2	38	8.5	15	6.4	0.17	ND	36	ND	ND	ND	40	39
U-EW-3	ND	6.3	170	0.72	1.6	41	9.3	18	7.4	<0.10	ND	44	0.32	ND	ND	35	41
U-EW-4	ND	3.8	120	0.61	0.66	35	7.2	11	5.4	ND	ND	41	ND	ND	ND	28	33
U-EW-5	ND	2.6	75	0.42	0.44	20	4.9	5.6	3.6	ND	ND	22	ND	ND	ND	17	21
U-EW-6	ND	3.4	57	0.42	0.38	17	5.2	4.8	3.5	ND	ND	19	NA	ND	ND	18	21
U-F-1	ND	5	200	0.84	1.5	52	10	18	8.2	0.15	ND	47	ND	ND	ND	43	41
T-2-5	ND	5	150	0.7	0.73	36	8.9	17	13	<0.10	ND	42	0.99	ND	ND	31	51
PL1-1-3.5	ND	3.2	110	0.47	0.47	22	6.7	7.8	8.7	<0.10	ND	25	0.73	ND	ND	20	24

Notes:

mg/Kg = milligrams per kilograms

ND = Not detected

NA = Not Analyzed

Table 7
Soil Sample Analytical Results - TPH and VOCs
UST Excavation
575 Paseo Grande
San Lorenzo, California

Sample Name	Sample Date	Excavated	Analyte								
			Total Petroleum Hydrocarbons-as-				Benzene	Toluene	Ethyl-benzene	Total Xylenes	EPA Method 418.1
			Gasoline	Diesel	Motor Oil	Kerosene					
(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)		
UT-NW-1	02/07/96	No	ND	ND	ND	ND	ND	ND	ND	ND	ND
UT-SW-1	02/06/96	No	ND	9.7 YH	260 YH	ND	ND	ND	ND	ND	102
UT-WW-1	02/06/96	No	ND	3.1 YH	89 YH	ND	ND	ND	ND	ND	46
UT-WW-2	02/07/96	No	ND	ND	ND	ND	ND	ND	ND	ND	ND
UT-EW-1	02/07/96	No	ND	6.9 YH	290 YH	2.4	ND	ND	ND	ND	70
UT-EW-2	02/07/96	No	ND	6.3 YH	510 YH	ND	ND	ND	ND	ND	220
UT-F-1	02/07/96	No	1.6	12 YH	490 YH	18	ND	ND	ND	ND	150

Notes:

mg/Kg = milligrams per kilograms

Y = Sample exhibits fuel pattern which does not resemble standard

L = Lighter hydrocarbons than indicated standard

Z = Sample exhibits unknown single peak or peaks

H = Heavier hydrocarbons than indicated standard

VOCs = Volatile organic compounds

TPH = Total petroleum hydrocarbons

ND = Not detected

NA = Not Analyzed

Table 8
Soil Sample Analytical Results - Metals
UST Excavation
575 Paseo Grande
San Lorenzo, California

Sample Name	Analytes																
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
UT-NW-1	ND	3.1	75	0.43	0.36	20	5.5	7.4	4.1	ND	ND	24	0.63	ND	ND	18	23
UT-SW-1	ND	3.3	100	0.46	0.59	27	6	13	31	0.13	ND	27	<2.4	ND	ND	19	58
UT-WW-1	ND	3.3	47	0.51	0.72	32	11	36	3.9	0.69	ND	25	<2.4	ND	ND	34	28
UT-WW-2	ND	3.5	110	0.55	0.46	29	6.9	10	5	0.21	ND	32	NA	ND	ND	23	25
UT-EW-1	ND	4	96	0.64	0.62	29	8.3	27	21	0.28	ND	30	0.62	ND	ND	34	66
UT-EW-2	ND	4.8	120	0.72	0.82	42	8.4	24	70	0.12	ND	39	0.68	ND	ND	33	210
UT-F-1	ND	5	110	0.64	0.65	31	8.5	27	31	ND	ND	34	0.65	ND	ND	30	97

Notes:

mg/Kg = milligrams per kilograms

ND = Not detected

NA = Not Analyzed

TABLE 9
Soil Sample Analytical Results - TPH and VOCs
Soil Borings
575 Paseo Grande
San Lorenzo, California

Sample Name	Sample Name	Sample Depth (ft bgs)	Analyte											
			Total Petroleum Hydrocarbons-as-				Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	EPA Method 8010		EPA Method 8270 (mg/Kg)	
			Gasoline (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)	Unknown *					Naphthalene (mg/Kg)	Other (mg/Kg)		
MW1-7.5	05/10/96	7.5	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND**
MW1-10.5	05/10/96	10.5	17	ND	ND	11	ND	0.1	0.19	0.25	ND	ND	ND	ND**
MW2-12.5	05/10/96	12.5	480	ND	ND	35	ND	0.37	3.2	6.5	0.55	ND	ND	ND**
MW2-5	05/10/96	5	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND**
MW3-5.5	05/10/96	5.5	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND**

Notes:

ft bgs = feet below surface grade
mg/Kg = milligrams per kilograms
- = not reported

ND = Not detected

* Laboratory report indicates "Lighter hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint. Possible gasoline."

** Trace concentrations of dichloromethane, a common laboratory contaminant, were detected in all soil samples.

TABLE 10
Soil Sample Analytical Results - Metals
Soil Borings
575 Paseo Grande
San Lorenzo, California

Sample Name	Sample Depth (ft bgs)	Analytes																
		Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Mercury (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)
MW1-7.5	7.5	ND	ND	460	ND	ND	26	8	20	ND	0.05	ND	37	ND	ND	ND	24	39
MW1-10.5	10.5	ND	ND	210	ND	ND	37	13	29	ND	0.08	ND	56	ND	ND	ND	44	67
MW2-12.5	12.5	ND	ND	220	ND	ND	36	12	25	ND	0.08	ND	55	ND	ND	ND	35	63
MW2-5	5	ND	ND	140	ND	ND	36	12	27	ND	0.1	ND	53	ND	ND	ND	37	66
MW3-5.5	5.5	ND	8.2	140	0.33	0.33	18	7.7	21	27	0.08	ND	25	ND	ND	ND	22	140

Notes:

ft bgs = feet below surface grade

mg/Kg = milligrams per kilograms

ND = Not detected

TABLE 11
Groundwater Sample Analytical Results - TPH and VOCs
MAY 17, 1996
Groundwater Monitor Wells
575 Paseo Grande
San Lorenzo, California

Sample Name	Analyte															
	Total Petroleum Hydrocarbons-as-				Benzene	Toluene	Ethyl-benzene	Total Xylenes	EPA Method 8010						EPA Method 8270	
	Gasoline	Diesel	Motor Oil	Unknown *					Dichloro-methane	cis-1,2-DCE	1,2-DCA	TCE	PCE	Other	Naphthalene	2-methyl-naphthalene
(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
MW1	1100	ND	ND	220	ND	8.7	7.4	17	ND	2.8	ND	4.5	4.8	ND	ND	ND
MW2	23000	ND	ND	3900	900	330	650	1500	3.1	<0.5	2.7	ND	0.7	ND	390	88
MW3	6700	ND	ND	2900	140	45	210	180	ND	ND	ND	ND	ND	ND	60	64

Notes:

ug/L = micrograms per liter (parts per billion)

DCE = Dichloroethene

DCA = Dichloroethane

TCE = Trichloroethene

PCE = Tetrachloroethene

* Laboratory report indicates "Lighter hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint. Possible gasoline."

ND = Not detected

Note: Metal concentrations were below detection limits with the exception of barium which was detected in all samples analyzed. The maximum barium concentration was 0.25 milligrams per liter (mg/L) in MW-2.

Floating product observed in Well MW-3 during well development

TABLE 12
Groundwater Monitoring Results
May 17, 1996
575 Paseo Grande
San Lorenzo, California

Well Name	TOC Elevation	Depth-to-Water	Groundwater Elevation
	(ft. msl)	(ft. below TOC)	(ft.msl)
MW-1	27.11	5.65	21.46
MW-2	26.73	5.56	21.17
MW-3	26.15	4.39	21.76

Notes:

TOC Elevation = Top of well casing elevation based on May 23, 1996 survey.

ft. = Feet

ft. msl = Feet relative to mean sea level datum.



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5991 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 PHONE (510) 784-2600 FAX (510) 784-2601

8 May 1996

Mr. Steve McCabe
SECOR International
1390 Willow Pass Road, Suite 360
Concord, CA 94523

Dear Mr. McCabe:

Enclosed is drilling permit 96341 for a monitoring well construction project at 575 Paseo Grande in San Lorenzo for David D. Bohannon Organization.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact Wyman Hong at extension 235 or me at extension 240.

Very truly yours,

Craig A. Mayfield
Water Resources Engineer III

CM:ab
Enc.



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 575 Paseo Grande
San Lorenzo, CA

PERMIT NUMBER 96341
LOCATION NUMBER _____

CLIENT

Name David D. Bohannon Organization
Address 60 Hillside Mall Voice (415) 345-8222
City San Mateo Zip _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT

Name SECOR International Incorporated Fax (510) 686-3099
Address 1390 Wilburpass Rd #360 Voice (510) 686-9780
City Concord Zip 94523

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection _____	General _____
Water Supply _____	Contamination _____
Monitoring <u>X</u>	Well Destruction _____

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

Domestic _____	Industrial _____	Other _____
Municipal _____	Irrigation _____	

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:

Mud Rotary _____	Air Rotary _____	Auger <u>X</u>
Cable _____	Other _____	

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. 672617

E. WELL DESTRUCTION. See attached.

WELL PROJECTS

Drill Hole Diameter <u>8</u> in.	Maximum
Casing Diameter <u>2</u> in.	Depth <u>20</u> ft. ✓
Surface Seal Depth <u>10</u> ft.	Number <u>3</u> ✓

GEOTECHNICAL PROJECTS

Number of Borings _____	Maximum
Hole Diameter _____ in.	Depth _____ ft.

ESTIMATED STARTING DATE 5/10/96

ESTIMATED COMPLETION DATE 5/10/96

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 7 May 96
Wyman Hong

APPLICANT'S SIGNATURE Steve McCabe Date 5/1/96

APPENDIX B

Shipping and Disposal Papers

***“Shipping and Disposal Papers will be provided
when they become available”***

APPENDIX C

Discharge Permit



ORO LOMA SANITARY DISTRICT

December 26, 1995

FILE

70094-001-02

Mr. Steve McCabe
SECOR
1390 Willow Pass Road, Suite 360
Concord, CA 94520

Subject: **Special Discharge Permit Requirements**

Dear Mr. McCabe:

On December 14, 1995, you contacted the District for information regarding our discharge requirements for groundwater discharges.

You stated your company is involved in remediation at 575 Paseo Grande at Hesperian Blvd in San Lorenzo. This site has a 40' x 40' excavation pit that contains an estimated 20,000 - 30,000 gallons of rain and groundwater. In order to continue your work at the site, this water needs to be removed.

As explained, the District allows for such discharges under a special discharge permit for groundwater. You were provided with our permit conditions and an application by fax on December 14, 1995. A complete permit application package was mailed to you on December 15, 1995.

On December 21, 1995, you contacted our office again to request a modification of the initial sampling requirements which states the following:

3A) Initial Sampling *During the initial three-hour start-up pumping period, the effluent discharge from the treatment process SHALL NOT be sewerred. The total volume shall be contained in a tank. The system will be shut down. A representative groundwater sample shall be collected and analyzed for constituents listed. Further processing of the groundwater will be allowed only after laboratory analysis demonstrate that the contents of the tank meet all of the limitations set forth in this permit.*

Instead of pumping through a treatment system and then into a storage tank, you have requested permission to pump the accumulated water through activated carbon filters and then pump the treated effluent back into the excavation pit. The effluent would be sampled and analyzed as required under Paragraph 3B of the permit.

The District has no objection to this request. The purpose of the initial three-hour start-up period is to test the effectiveness of the treatment system. Recycling the treated effluent back into the excavation pit rather than a Baker tank will have no effect upon this evaluation.

TO: Mr. Steve McCabe, SECOR
Re: **Special Discharge Permit Rquirements**
December 26, 1995
Page 2

On December 28, 1995, the District received your application and permit fee for a Special Discharge Permit. Your application is approved. A copy is enclosed. Please review the new permit conditions carefully. We have modified Part 5 to reflect the modifications requested.

The permit fee will be in effect for one year. You may continue to discharge under this permit, however, each discharge must demonstrate compliance with the permit conditions. In addition, should you install a remediation system on site, the original permit conditions will apply. Please contact our office for further information in this event. You may reach us at (510) 276-4700, extension 149, with any questions.

Sincerely,

Edward A. Heuer
Director, Water Quality Services



Susan Keach
Industrial Waste Inspector

ORO LOMA SANITARY DISTRICT

WASTEWATER DISCHARGE PERMIT

COMPANY NAME David D. Bohannon Organization
MAILING ADDRESS c/o SECOR International, Inc.
1390 Willowpass Rd, Suite 360, Concord, CA 94523
FACILITY ADDRESS: 575 Paseo Grande
San Lorenzo, CA 94580

The above named company is authorized to discharge wastewater to the Oro Loma Sanitary District sewerage system subject to compliance with the District's Ordinance No. 39 (as amended) titled:

"AN ORDINANCE REGULATING THE USE OF PUBLIC AND PRIVATE SEWERS AND DRAINS. REGULATING THE DISCHARGE OF WATERS AND WASTE INTO THE PUBLIC SEWER SYSTEM. PROVIDING FOR WASTEWATER DISCHARGE PERMITS AND FIXING PERMIT AND MONITORING FEES, AND PROVIDING FOR LIABILITIES AND PENALTIES FOR THE VIOLATION OF THE PROVISIONS THEREOF."

and subject to compliance with any Federal or State regulations that apply, all permit conditions set forth in this permit, and payment, of fees and charges when billed.

This permit is granted in accordance with the application filed on December 28, 1995 in the office of the Oro Loma Sanitary District and in conformity with specifications and information submitted to the District in support of the above referenced application.

PERMIT NO: 027 EFFECTIVE DATE: January 1, 1996

EXPIRATION DATE: December 31, 1996

APPROVED



GENERAL MANAGER

1/4/96

DATE

PERMIT CONDITIONS

PART I

GENERAL

1. **Definition.** See Section 1.2 Ordinance No. 39-6 attached.
2. **General** The user shall comply with all the general prohibitive discharge standards in Article II: Regulations of Ordinance No. 39-6.
3. **Right of Entry** Ready and immediate access to the facility, the pretreatment area and the sampling points shall be provided to District personnel at all times.
4. **Records Retention.** The user shall retain and preserve for no less than three (3) years any records, books, documents, memoranda, reports, correspondence and any and all summaries thereof, relating to monitoring, sampling and chemical analyses made by, or on behalf of the User in connection with its discharge. Records shall be made available for inspection and copying by representatives of the District, the California Regional Water Quality Control Board or the environmental Protection Agency. All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the District shall be retained and preserved by the User until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.
5. **Confidential Information** Except for data determined to be confidential under the provisions of Ordinance No. 39-6, all reports required by this permit shall be available for public inspection at the District Office, 2600 Grant Avenue, San Lorenzo, California 94580.
6. **Time Schedules.** Time schedules for achieving compliance which are required through a notice of violation, administrative or judicial order, or any other written correspondence from the District are deemed to be a condition of the permit.
7. **Signatory Requirement.** All reports required by this permit shall be signed by an authorized representative of the permittee or his designee, as defined in Ordinance No. 39-6.
8. **Revocation of Permit.** The permit issued to the user by the District may be revoked when, after inspection, monitoring or analysis, it is determined that the discharge of wastewater to the sanitary sewer is in violation of Federal, State or local laws, ordinances, or regulations. Additionally, falsification or intentional misrepresentation of data or statements pertaining to the permit application or any other required reporting form shall be cause for permit revocation.
9. **Limitation of Permit Transfer.** Wastewater discharge permits are issued to a specific user for a specific operation and are not assignable to another user or transferable to any other location without the prior written approval of the District. Sale by a User shall obligate the purchaser to seek prior written approval of the District for continued discharge to the sewerage system and issuance of new permit.

PERMIT CONDITIONS

PART I

GENERAL

10. ***Falsifying Information or Tampering with Monitoring Equipment.*** Knowingly making any false statement on any report or other document required by this permit, or knowingly rendering any monitoring device or method inaccurate may result in punishment in accordance with District Ordinance 39-6 or other applicable laws.

11. ***Modification or Revision of the Permit.*** The terms and conditions of this permit may be subject to modification by the District at any time as limitations or requirements as identified in the District Ordinance No. 39-6 are modified, or if other just cause exists.

This permit may also be modified to incorporate special conditions resulting from the issuance of a special order by an agency which regulates the District's discharge.

The terms and conditions may be modified as a result of Environmental Protection Agency promulgating a new federal pretreatment standard.

Any permit modifications which result in new conditions in the permit shall include a reasonable time schedule for compliance, if necessary.

12. ***Duty to Reapply*** Within thirty (30) days of the notification, the user shall reapply for reissuance of the permit on a form provided by the District.

13. ***Severability*** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provisions to other circumstances and the remainder of this permit shall not be affected thereby.

14. ***Property Rights*** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Federal, State or Local regulations.

15. ***Permit Duration*** The wastewater discharge permit will remain in effect for one year from the effective date of the permit. Users who are issued a wastewater discharge permit or renew a wastewater discharge permit shall pay the permit fee set forth in the current schedule of fees as adopted in the most current amendment to Ordinance No. 39-6.

PERMIT CONDITIONS

PART 2 DISCHARGE REQUIREMENTS

1. *Maintenance of Pretreatment Equipment and Monitoring Systems*

- a. The waste treatment system shall be kept in a fully operational condition at all times. This includes maintaining adequate chemical supplies for treating wastewater, proper calibrations of all instrumentation (pH meters, etc.) and proper removal of sludges and unacceptable wastes. A qualified operator of the system shall be available to maintain the pretreatment system during all discharge periods.
- b. The District shall be notified immediately if there are problems with the pretreatment system. Any proposed modifications to the system or the processes for pretreating the wastewater must be reviewed and approved by the District's Source Control Staff prior to implementation.

2. *Discharge Limitations.*

- a. The wastewater discharge shall not contain constituents in excess of the following limits, and compliance with these units shall be demonstrated at the sampling location specified in Part 3 of this Permit.

<u>Parameter</u>	<u>Symbol</u>	<u>Limit for any one Sample</u>
Arsenic	As	0.8 mg/L
Cadmium	Cd	0.2 mg/L
Copper	Cu	0.5 mg/L
Cyanide	Cn	1.0 mg/L
Lead	Pb	1.0 mg/L
Mercury	Hg	0.01 mg/L
Nickel	Ni	1.0 mg/L
Selenium	Se	1.0 mg/L
Silver	Ag	0.8 mg/L
Total Chromium	Cr	2.0 mg/L
Zinc	Zn	3.0 mg/L
T.I.C.H.*		0.02 mg/L
Phenolic compounds		70 mg/L
Oil and Grease (Mineral)		100 mg/L
Oil and Grease (Animal/Vegetable)		300 mg/L
pH		No lower than 5.5 units
Temperature		No higher than 150° F

*(T.I.C.H.: Total Identifiable Chlorinated Hydrocarbons)

PERMIT CONDITIONS

PART 2 DISCHARGE REQUIREMENTS

- b) The permittee shall comply with all limits, prohibitions and requirements set forth in this permit and in Ordinance 39-6. Wastewater strength limits for constituents not listed above may be established based upon available treatment technology, existing wastewater conditions in the District's facilities or other factors as determined by the District.
- c) Should Federal Categorical Standards for a particular industrial category be more stringent than the limits set forth in this permit or ordinance, the more stringent Federal limits shall apply.

3. ***Dilution or Bypassing*** No user shall increase the use of potable or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit. User shall not divert their wastestreams from the pretreatment systems.

4. ***Proper Disposal of Pretreatment Sludges and Spent Chemicals*** The disposal of sludges and spent chemicals generated shall be done in accordance with all applicable State and Federal regulations. Copies of all Hazardous Wastes Manifests shall be maintained as part of the Records Retention Requirement Section 4.8 of Ordinance 39-6.

PERMIT CONDITIONS

PART 3

REPORTING REQUIREMENTS

1. **Notice to Employees** In order that employees of user be informed of District requirements, users shall make available to their employees, copies of the Districts Discharge Regulations together with other wastewater information and notices which may be furnished by the District. User shall permanently post a notice advising employees whom to call in case of spill or accidental discharge. This notice shall be posted in a prominent place.
2. **Accidental Spills or Slug Discharge** The user shall notify the District immediately upon any accidental or slug discharge to the sanitary sewers as outlined in ***Ordinance No. 39-6 Section 2.12.*** Formal written notification discussing circumstances and remedies shall be submitted to the District within five days of the occurrence. The user shall work with the District to resolve any problems caused by such accidental or slug discharge. The District will evaluate the need for a spill prevention plan for all significant industrial users no less than once every two years. Should the District determine there is a need for spill prevention plan, the industrial user will be notified and required to submit such a plan to the District.
3. **Notification of Changed Discharge.** The user shall promptly notify the District of any changes (permanent or temporary) to the premises, operation of the firm, quality or volume of wastewater, water usage, process, installation or removal of tanks or equipment prior to implementation.
4. **Notification of Upset.** Any upset experienced by the user of any of its treatment processes that places the user in a temporary state of noncompliance with the wastewater discharge limitations contained in this permit or other limitations specified in the District's Ordinance shall be reported to the District within 24 hours of first awareness of the commencement of the upset. A detailed report shall be filed with the District within five days of the start of the upset.
5. **Periodic Reports of Compliance** As required by 40 CFR 403.12, all significant industrial users, both categorical and non-categorical, must submit periodic reports of continued compliance to the District. These reports are due by ***June 30 and December 31*** of each year. The content and format of these reports must be in compliance with EPA and District requirements.

PERMIT CONDITIONS

PART 3 REPORTING REQUIREMENTS

6 (A) *Self Monitoring: General Requirements*

In addition to self monitoring required elsewhere in this permit, the following conditions must be met:

1. All samples and measurements must be representative of the wastestream and taken under normal discharging conditions when monitored pollutants are likely to be present. Samples collected to determine compliance with Federal point Source Wastewater Discharge limitations must be taken immediately downstream from the pretreatment facilities. If no pretreatment is performed the samples must be taken immediately downstream from the regulated process, before the process wastewater combines with sanitary or other diluting waterstreams (non-contact cooling water, boiler blowdown, etc.).
2. Sampling performed for periodic reports of continued compliance must be collected, processed, stored, analyzed and reported in compliance with EPA and District requirements.
3. All monitoring information and records must be retained for at least three years from the date of the sample, measurement, or report. This information must be made available for inspection and copying by District personnel or a District authorized representative upon request.
4. If self monitoring indicates a violation, the permittee must notify the District within 24 hours of becoming aware of the violation and must resample immediately. The results of the resample must be submitted to the District within 30 days after becoming aware of the violation. (40 CFR 403.12(g)(2))
5. Self monitoring required through a Notice of Violation, Administrative Order, or any other written correspondence from the District is deemed to be a condition of this permit.
6. If any pollutant is monitored more frequently than required by the District or Federal regulation, the results of this additional sampling must also be included in the Periodic Reports of Continued Compliance.

PERMIT CONDITIONS

PART 3 REPORTING REQUIREMENTS

7. *Hazardous Materials Notification*

- a. The permittee shall notify the District, the E.P.A., Regional Waste Management Division Director and the California Department of Health Services in writing, of any intentional or accidental discharge of a RCRA characteristic or listed hazardous waste or material. Notification must be made within 180 days after the discharge, and must include the name and E.P.A. hazardous waste number of the material, the type of discharge, (continuous, batch or other), an identification of the hazardous constituents of the waste, an estimate of the mass and concentration in the wastestream discharge during that calendar month.
- b. The Notification Requirement does not apply to pollutants already reported in periodic self-monitoring reports.

PERMIT CONDITIONS

PART 4 PENALTIES AND FEES

1. ***Significant Non-Compliance*** Should the District determine that the permittee is in significant non-compliance with applicable pretreatment requirements, the District will list the facility in the ***Public Notice of Significant Wastewater Violations*** in the largest daily newspaper in the area. This list will be published annually, but may be published more frequently at the discretion of the District.

An industrial user is in significant non-compliance if one or more of the following violations occurs:

- a. Chronic violations of wastewater discharge limits, defined as those in which 66 percent or more of all of the measurements taken during a six month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter.
- b. Technical Review Criteria (TRC) violations, defined as those in which 33 percent or more of all of the measurements for each pollutant parameter taken during a six month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC (TRC = 1.4 for BOD, TSS, fats, oil, and grease, and 1.2 for all other pollutants except pH.)
- c. Any other violation of a pretreatment effluent limit (daily maximum or longer-term average) that the District determines has caused, alone or in combination with other discharges, interference or pass through (including endangering the health of District personnel or the general public).
- d. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the District's exercise of its emergency authority to halt or prevent such a discharge.
- e. Failure to meet, within 90 days after the schedule date, a compliance schedule milestone contained in a permit or enforcement order for starting construction, completing construction, or attaining final compliance.
- f. Failure to provide, within 30 days after the due date, required reports such as baseline monitoring reports, 90 day compliance reports, periodic self monitoring reports, and reports on compliance with compliance schedules.
- g. Failure to accurately report non-compliance.
- h. Any other violation deemed significant by the District.

PERMIT CONDITIONS

PART 4 PENALTIES AND FEES

2. ***Civil and Criminal Liability*** Any person who violates any requirements or conditions of this permit, Ordinance 39-6, an order of the District, or violates any cease and desist order, prohibition, effluent limitation, National Standard of Performance, pretreatment or toxicity standard shall be liable civilly for a penalty not to exceed \$25,000.00 for each day in which such violation occurs or continues. In addition to penalties, the District may recover reasonable attorney's fees and other expenses of litigation.

Any person who commits such violations is guilty of a misdemeanor and upon conviction is subject to criminal penalties of not more than \$25,000.00 and or imprisonment for not more than 30 days in the county jail.

Nothing in this permit relieves the permittee from civil and or criminal penalties for non-compliance under state or federal laws or regulations.

3. ***Wastewater Charges and Fees.*** The User shall pay to the District all sewer service charges, permit fees, monitoring charges and laboratory analysis charges levied in accordance with current District Ordinances. All charges are due and payable upon receipt of statement of charges. Failure to pay fees within 30 days may result in revocation of wastewater discharge permit and termination of service. Overdue fees shall be assessed a 10 percent penalty plus interest of 1.5 percent per month until fees have been paid.

PERMIT CONDITIONS

PART 5

SPECIAL CONDITIONS - GROUNDWATER DISCHARGES

1. **GENERAL** The permittee shall provide easily accessible sampling points for both pre and post-treatment samples. The District reserves the right to sample at will for any constituents deemed necessary on water samples collected from either pre or post-treatment locations.

There shall be no bypassing of any treatment process or unit or direct discharge into the sewer system at any time.

The permittee assumes full responsibility for any and all damages to the collection system or to the Oro Loma/Castro Valley Treatment Plant, that can be directly attributed to the discharge of treated water from the operation site.

2. **PRE-PUMPING AND EMERGENCY NOTIFICATION** The permittee shall notify the District's Inspector at 276-4700, extension 149, no less than two (2) hours prior to commencement of any pumping activity and request an inspection of the site. No pumping shall occur until District staff have inspected the site, piping, pumping set-up, metering and discharge points.

In the event of any explosive condition or other potentially harmful situation which may affect either the collection system or the P.O.T.W., the permittee shall contact the District at 278-1747 or 276-4700 immediately (operators are on duty 24 hours per day).

The Fire Department shall be notified of the clean-up operation.

If air stripping is part of the treatment process, the Bay Area Air Quality Control Board shall be notified of the process. If a permit is issued by the Air Board, a copy of that permit and subsequent extensions shall be submitted to the District.

- 3(A) **PRE-DISCHARGE SAMPLING:** Discharge to the District's sanitary sewer system will be authorized only after compliance with the discharge standards listed in 3(B) can be demonstrated.

Pre-discharge sampling shall be performed as follows: the water shall be pumped through the treatment system for not less than one hour, and the effluent shall be pumped back into the reservoir.

During this period, grab samples of the effluent shall be collected at 30-minute intervals (or more frequently if deemed necessary by the District's Inspector). Equal volumes shall be composited for testing as described in 3(B). The District reserves the right to obtain split samples for independent testing.

Further processing and discharge of the water will be allowed only after laboratory analysis demonstrates compliance with all discharge limits set forth in this permit.

PERMIT CONDITIONS

PART 5
Special Discharge - Groundwater Discharges

3(B) *Sampling Requirements*

Parameter

O.L.S.D. Limit

Metals

Arsenic	0.8 mg/L
Cadmium	0.2 mg/L
Copper	0.5 mg/L
Lead	1.0 mg/L
Mercury	0.01 mg/L
Nickel	1.0 mg/L
Selenium	1.0 mg/L
Silver	0.8 mg/L
Total Chromium	2.0 mg/l
Zinc	3.0 mg/L

Additional Testing

Total Petroleum Hydrocarbons (EPA 8015)	15 mg/L
B.T.E.X. (EPA 8020)	Non-detectable
Phenols	70 mg/L
Cyanide	1.0 mg/L

General Analysis

COD	N/A
Suspended Solids	N/A
pH	No lower than 5.5 units

PERMIT CONDITIONS

PART 5

Special Discharge - Groundwater Discharges

4(A) **FLOW RATE** The treated water shall be discharged at a rate not to exceed one tenth (1/10) of the capacity of the public sewer into which it drains.

4(B) **POINT OF DISCHARGE** The point of discharge to the District's sanitary sewer shall be established prior to discharge. The point of discharge may not be changed without prior authorization from the District.

5. **METERING** The permittee must report the total volume of water discharged to the sanitary sewer. A meter with a non-resettable totalizer may be used for this purpose. The District may accept an estimate of the total volume to be discharge if provided with the calculations and description of how the estimate was determined.

The calculation must be approved prior to discharge. The District reserves the right to require metering in the event the estimate is not deemed acceptable.

6. **BILLING AND PERMIT EXTENSIONS** The permittee shall pay all District fees for sampling, monitoring inspections, loading charges, as well as any other related District expenses billed prior to the expiration of this permit.

The District will not consider an extension of this permit until all fees and reimbursable costs have been paid to the permittee.

7. **FEES** An annual permit fee of \$ 420 is charged with the issuance and any subsequent renewals of this discharge permit.

Sewer service and use charges will be \$1.97 per thousand gallons of water discharged.

SECOR International Incorporated

1390 Willow Pass Road, Suite 360
CONCORD, CALIFORNIA 94520

phone (510) 686-9780

fax (510) 686-3099

ENVIRONMENTAL
PROTECTION
96 JUN 21 PM 1:53

TRANSMITTAL MEMORANDUM

To: NAME AGENCY
 Ms. Amy Leech Alameda County

From: Steve McCabe

Subject: Shipping Papers for Soil Disposal at
 575 Paseo Grande in San Lorenzo, California

Date: June 20, 1996

Attached are the shipping papers for the site referenced above. Please insert these into the June 4, 1996, "Report of Interim Remedial Actions" as Appendix B. Please call me if you have any questions or require additional information.

APPENDIX B

Shipping and Disposal Papers

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG Generating Location _____

Address 60 HILLSDALE MALL Address 575 PASEO GRANDE

SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code CA 405 120695 CA280 Containers _____

Description of Waste	Quantity	Units	Containers	
			No.	Type
Soil	20	Y	01	T

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name PETER SCHURMAN Signature *Peter Schurman* Shipment Date 12/14/95

TRANSPORTER

Truck No. ① M-1 Phone No. 408-988-4021

Transporter Name GAGLIASSO TRUCKING Driver Name (Print) DAN FORKIN

Address 415 ALDO AV Vehicle License No./State 9C42449

SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature *Dan Forkin* Shipment Date 12/14/95 Driver Signature *Dan Forkin* Delivery Date 12/14/95

DESTINATION

Site Name BFI Phone No. 510-4470491

Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature *[Signature]* Receipt Date 12/14/95

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____

Address 60 HILLSTALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
<u>CA A05 120695 04280</u>	<u>Soil</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>1</u>	<u>Yards</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name PETER SCHUMMAN Signature [Signature] Shipment Date 121495

TRANSPORTER

Truck No. (2) R+R-269 (4) Phone No. 908-988-4021

Transporter Name GAGLIARDI TRUCKING Driver Name (Print) J. J. FERRIS
Address A15 ALDO AV Vehicle License No./State 91 38254
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121495 Driver Signature [Signature] Delivery Date 121495

DESTINATION

Site Name BFI Phone No. 510-4470491
Address VASCO RD - LIVERMORE

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature [Signature] Receipt Date 121495

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	<u>CA</u>	<u>A05</u>	<u>120695</u>	<u>04280</u>	Containers	Type		
	Description of Waste				Quantity	Units	No.	Type
	<u>Soil</u>				<u>20</u>	<u>Y</u>	<u>01</u>	<u>1</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Peter Schurman Generator Authorized Agent Name
Peter Schurman Signature
121495 Shipment Date

TRANSPORTER

Truck No. (3) 17 Phone No. 408-988-4021
 Transporter Name GALLASSO TRUCKING Driver Name (Print) DANIEL BERTINO
 Address 415 ALDO AV Vehicle License No./State 1 A1120C
SANTA CLARA CA 95051 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Daniel Bertino Driver Signature 121495 Shipment Date
Daniel Bertino Driver Signature 121495 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4970491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Name of Authorized Agent Signature 121495 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNAN ORG Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASCO GRAUPE
SAN MATEO CA 9403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. -
 BFI Waste Code CA 405 120695 04280

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
Soil	20	Y	01	T	D - Drum
					C - Carton
					B - Bag
					T - Truck
					P - Pounds
					Y - Yards
					O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Peter Schorman Signature [Signature] Shipment Date 121495

TRANSPORTER

Truck No. (A) 32 Phone No. 408-989-4021
 Transporter Name Gagliasso Trucking Driver Name (Print) Paul Pascas
 Address 415 ALDO AV Vehicle License No./State 9A48039
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121495 Driver Signature [Signature] Delivery Date 121495

DESTINATION

Site Name BFI Phone No. 510-9470491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature [Signature] Receipt Date 121495

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG Generating Location _____
 Address 60 HILLSDALE MAIL Address 575 PASEO GRANDE
SAN MATEO CA 94103 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____
 BFI Waste Code CA 405 120695 04280A Containers _____

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
Soil	20	Y	01	T	T - Truck
					P - Pounds
					Y - Yards
					O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN Generator Authorized Agent Name
Peter Schurman Signature
121495 Shipment Date

TRANSPORTER

Truck No. 410 Phone No. 408-988-4021
 Transporter Name GALLAGHER TRUCKING Driver Name (Print) XO JACKSON
 Address 415 ALDO AV Vehicle License No./State 3169C11
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

XO Jackson Driver Signature
121495 Shipment Date
XO Jackson Driver Signature
121495 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4970491
 Address VAGY RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Name of Authorized Agent Signature
121495 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code CA 405 120695 0A280 Containers _____ Type _____
 Description of Waste SOIL Quantity 20 Units Y No. 01 Type T

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Peter Schorman Peter Schorman 121495
 Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Truck No. 6 M-1 Phone No. 408-989-4021
 Transporter Name MAGLIASSO TRUCKING Driver Name (Print) Dan Penkies
 Address 415 ALDO AV Vehicle License No./State 9A12419
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Dan Penkies 121495 Dan Penkies 121495
 Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name BFI Phone No. 415-4470491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Authorized Agent Signature Receipt Date 12/14/95

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOWMAN ORG Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	Description of Waste	Quantity	Units	No.	Type	Containers	Type
CA 405 120695 0A280	SOIL	20	Y	01			D - Drum C - Carton B - Bag T - Truck P - Pounds Y - Yards O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name PETER SCHAERMAN Signature [Signature] Shipment Date 121495

TRANSPORTER

Truck No. ⑦ 910 Phone No. 408-989-4021
 Transporter Name GALLIASSO TRUCKING Driver Name (Print) OC JACKSON
 Address 415 ALDO AV Vehicle License No./State 9C11316
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121495 Driver Signature [Signature] Delivery Date 121495

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature [Signature] Receipt Date 121495

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORH Generating Location _____

Address 60 HILLSDALE MALL Address 575 PASEO GRANDE

SAN MATEO CA 94403

SAN LORENZO CA

Phone No. 415-3456222

Phone No. _____

BFI Waste Code CA A05 120695

04280

Description of Waste

Containers

Soil

Quantity	Units	No.	Type
<u>20</u>	<u>Y</u>	<u>01</u>	<u>1</u>

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Peter Schorman
Generator Authorized Agent Name

Peter Schorman
Signature

121495
Shipment Date

TRANSPORTER

Truck No. (B) R+R-209

Phone No. 408-988-4021

Transporter Name AGLIASSO

Driver Name (Print) X John Ramirez

Address 415 ALDO AV

Vehicle License No./State 9C38254

SANTA CLARA CA 95054

Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered with out incident to the destination listed below.

John Ramirez
Driver Signature

121495
Shipment Date

John Ramirez
Driver Signature

121495
Delivery Date

DESTINATION

Site Name BFI

Phone No. 510-4470491

Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

of Authorized Agent Signature

John Ramirez
Receipt Date 121495

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3453222 Phone No. _____

BFI Waste Code CA A05 120495 04280 Containers _____
 Description of Waste SOIL Quantity 20 Units Y No. 01 Type T
 Type
 D - Drum
 C - Carton
 B - Bag
 T - Truck
 P - Pounds
 Y - Yards
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHORMAN Generator Authorized Agent Name Peter Schorman Signature 121495 Shipment Date

TRANSPORTER

Truck No. @ M-1 Phone No. 408-988-4021
 Transporter Name GALLIASSO TRUCKING Driver Name (Print) DAN PERICINS
 Address 415 ALDO AV Vehicle License No./State 9C42419
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] Driver Signature 121495 Shipment Date [Signature] Driver Signature 121495 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Authorized Agent Signature 121495 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	<u>CA</u>	<u>A05</u>	<u>120695</u>	<u>04280A</u>	Containers					Type
	Description of Waste				Quantity	Units	No.	Type		
	<u>Soil</u>				<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN Generator Authorized Agent Name
[Signature] Signature
121595 Shipment Date

TRANSPORTER

Truck No. (10) M-1 Phone No. 408-988-4021
 Transporter Name GIUGLIASSO TRUCKING Driver Name (Print) DAN PERKINS
 Address 415 ALDO AVE Vehicle License No./State 9C42449
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator/site listed above.

I hereby certify that the above named material was delivered with out incident to the destination listed below.

[Signature] Driver Signature 121595 Shipment Date
[Signature] Driver Signature 121595 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

[Signature] Signature 121595 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	<u>CA</u>	<u>405</u>	<u>120695</u>	<u>04290</u>	Containers					
	Description of Waste				Quantity	Units	No.	Type		
	<u>Soil</u>				<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>		

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Peter Schurman Signature Peter Schurman Shipment Date 121595

TRANSPORTER

Truck No. #11 #9 Phone No. 408-999-4021
 Transporter Name GRANINGO Trucking Driver Name (Print) X GORDON PROCTOR
 Address 415 Aldo Av Vehicle License No./State X 9A15729
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered with out incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121595 Driver Signature [Signature] Delivery Date 121595

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

Name of Authorized Agent _____ Signature [Signature] Receipt Date 121595

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D BOHANNON/ORG Generating Location _____

Address 60 HILLSDALE MALL Address 575 PASEO GRANDE

SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code CA 405 120695 04290

Description of Waste

Soil

Quantity	Units	No.	Type
<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>

Containers

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Peter Schurman
Generator Authorized Agent Name

Peter Schurman
Signature

121595
Shipment Date

TRANSPORTER

Truck No. 12 209 Phone No. 408-988-4621

Transporter Name GAGLIASSO TRUCKING Driver Name (Print) JOHNNY RAMIREZ

Address 415 ALDO AV Vehicle License No./State X 9C 38254

SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered with out incident to the destination listed below.

Johnny Ramirez 121595
Driver Signature Shipment Date

Johnny Ramirez 121595
Driver Signature Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470497

Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

Name of Authorized Agent Signature Receipt Date 121595

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALI Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3454222 Phone No. _____
 BFI Waste Code CA 405 120695 CA 280 Containers _____

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
Soil	20	Y	01	T	

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN [Signature] 121595
 Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Truck No. 13 007 Phone No. 408-988-4021
 Transporter Name GAULIASSO TRUCKING Driver Name (Print) X FRANK BARNAS
 Address 415 ALDO AV Vehicle License No./State X 9C.39651
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] 121595 X [Signature] 121595
 Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VICYO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

[Signature] 121595
 Authorized Agent Signature Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____
 BFI Waste Code CA 405 120695 CA 280

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
SOIL	20	Y	01	T	

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN Peter Schurman 121595
 Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Truck No. 14 17 Phone No. 408-988-4021
 Transporter Name GAGLIASSO TRUCKING Driver Name (Print) X DAN ESTACIO
 Address 415 AHO AV Vehicle License No./State X 1ALVROC
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

X Dan Estacio 121595 X Dan Estacio 121595
 Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Authorized Agent Signature Receipt Date 121595

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code	<u>CA</u>	<u>405</u>	<u>120695</u>	<u>04280</u>	<u>A</u>	Containers			Type D - Drum C - Carton B - Bag T - Truck P - Pounds Y - Yards O - Other	
Description of Waste						Quantity	Units	No.		Type
<u>SOIL</u>						<u>20</u>	<u>Y</u>	<u>01</u>		<u>T</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PLUCHURMAN Generator Authorized Agent Name
Peter Pluchurman Signature
121595 Shipment Date

TRANSPORTER

Truck No. (15) M-1 Phone No. 408-988-4021
 Transporter Name GIULIASSO TRUCKING Driver Name (Print) X DAN PERKINS
 Address A15 ALDO AV Vehicle License No./State 9C4Z449
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Dan Perkins Driver Signature 121595 Shipment Date
Dan Perkins Driver Signature 121595 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4476491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

[Signature] of Authorized Agent Signature 121595 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSTALE MALL Address 575 POSEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
<u>CA 405 120695 04280</u>	<u>SOIL</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>	<u>T</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name P. SCHWEMER Signature _____ Shipment Date 121595

TRANSPORTER

Truck No. 16 90 Phone No. 408-998-4021
 Transporter Name CAGLIASSO TRUCKING Driver Name (Print) X GRADY PROCTOR
 Address A15 ALDO AV Vehicle License No./State X 9A15729
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered with out incident to the destination listed below.
 Driver Signature [Signature] Shipment Date 121595 Driver Signature [Signature] Delivery Date 121595

DESTINATION

Site Name BFI Phone No. 510-447049
 Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate
 Name of Authorized Agent _____ Signature _____ Receipt Date 121595

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D BOHANNON ORG. Generating Location _____

Address 60 HILLSTALE MALL Address 575 PASO GRANDE

SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code CA 405 120695 04280 Containers _____ Type _____

Description of Waste	Quantity	Units	No.	Type
SOIL	20	Y	01	T

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name P. Schorman Signature [Signature] Shipment Date 121595

TRANSPORTER

Truck No. 17 209 Phone No. 408-988-4021

Transporter Name GAGLIASSO TRUCKING Driver Name (Print) JOHNNY RAMIREZ

Address 415 ALDO AV Vehicle License No./State 9C38254

SANTA CLARA Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121595 Driver Signature [Signature] Delivery Date 121595

DESTINATION

Site Name BFI Phone No. 510-4470491

Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

Authorized Agent _____ Signature [Signature] Receipt Date 121595

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BRADY ORG Generating Location _____
 Address 60 HILLSTALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94463 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____
 BFI Waste Code CA 405 120695 04280

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
Soil	20	Y	01	T	

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

P. Schurman Generator Authorized Agent Name [Signature] Signature 121595 Shipment Date

TRANSPORTER

Truck No. (18) 007 Phone No. 408-988-4021
 Transporter Name MAGLIASSO TRUCKING Driver Name (Print) FRANK BARAJAS
 Address A15 ALDO AV Vehicle License No./State 9C 34851
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered with out incident to the destination listed below.

[Signature] Driver Signature 121595 Shipment Date [Signature] Driver Signature 121595 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

[Signature] Authorized Agent Signature 121595 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3459222 Phone No. _____
 BFI Waste Code CA 405 120695 04280

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
Soil	20	Y	01	T	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name P. SCHORMAN Signature [Signature] Shipment Date 121595

TRANSPORTER

Truck No. 17 Phone No. 408-988-4021
 Transporter Name GAGLIARDI TRUCKING Driver Name (Print) D. ESTACIO
 Address 415 ALDO AV Vehicle License No./State 1ALV ROL
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered with out incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121595 Driver Signature [Signature] Delivery Date 121595

DESTINATION

Site Name BFI Phone No. 510-4470401
 Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

Number of Authorized Agent _____ Signature [Signature] Receipt Date 121595

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	Description of Waste	Quantity	Units	No.	Type
<u>CA A05 120695 04280</u>	<u>SOIL</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>

- Type
 D - Drum
 C - Carton
 B - Bag
 T - Truck
 P - Pounds
 Y - Yards
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

P. Schurman Generator Authorized Agent Name
[Signature] Signature
121595 Shipment Date

TRANSPORTER

Truck No. (20) M-1 Phone No. 408-988-4021
 Transporter Name AGLIASSO Trucking Driver Name (Print) DAN PERKINS
 Address 415 ALDO AV Vehicle License No./State 9C42A49
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered with out incident to the destination listed below.

[Signature] Driver Signature 121595 Shipment Date
[Signature] Driver Signature 121595 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

[Signature] of Authorized Agent Signature 121595 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____

Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code	Description of Waste	Quantity	Units	No.	Type
<u>CA 405 120695 04280</u>	<u>Soil</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>

- Containers
- D - Drum
 - C - Carton
 - B - Bag
 - T - Truck
 - P - Pounds
 - Y - Yards
 - O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name [Signature] Signature [Signature] Shipment Date 121595

TRANSPORTER

Truck No. (21) 90 Phone No. 408 988 4021

Transporter Name GAGLIASSO TRUCKING Driver Name (Print) G. Proctor

Address 415 ALDO AV Vehicle License No./State 9A15729
SANTA CLARA CA 95054

Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121595 Driver Signature [Signature] Delivery Date 121595

DESTINATION

Site Name BFI Phone No. 510-4470401

Address VASCO Rd Livermore Cs

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Authorized Agent _____ Signature [Signature] Receipt Date 121595

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID P. BOHANNON ORG Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____
 BFI Waste Code CA A05 120695 CA 280

Description of Waste	Quantity	Units	Containers	
			No.	Type
Soil	20	Y	01	T

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

P. Sherman Generator Authorized Agent Name [Signature] Signature 121895 Shipment Date

TRANSPORTER

Truck No. (21) 90 Phone No. 408-988-4051
 Transporter Name GNALISSO TRUCKING Driver Name (Print) GRADY PROCTOR
 Address 415 ALDO AV Vehicle License No./State 9C39651 / CA
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered with out incident to the destination listed below.

[Signature] Driver Signature 121895 Shipment Date [Signature] Driver Signature 121895 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

[Signature] Authorized Agent Signature 121895 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID P. BROWN ORG _____ Generating Location _____

Address 60 HILLSDALE MALL Address 575 PASEO GRANDE

SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code CA 405 120695 04280 Containers _____ Type _____

Description of Waste	Quantity	Units	No.	Type
<u>SOIL</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name P. Schirmer Signature _____ Shipment Date 121895

TRANSPORTER

Truck No. 22 M.1 Phone No. 408-988-4021

Transporter Name GALLINARO TRUCKING Driver Name (Print) DAN PERKINS

Address A15 ALDO AV Vehicle License No./State 9C42449/CA

SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121895 Driver Signature [Signature] Delivery Date 121895

DESTINATION

Site Name BFI Phone No. 510-4470491

Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date 121895

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MAIL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	<u>CA</u>	<u>A05</u>	<u>120695</u>	<u>04280</u>	Containers	Type
Description of Waste	<u>Soil</u>			Quantity	Units	No. Type
				<u>20</u>	<u>Y</u>	<u>01</u> <input checked="" type="checkbox"/>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name PETER G. HIRMAN Signature [Signature] Shipment Date 121895

TRANSPORTER

Truck No. (23) 007 Phone No. 409-989-4021
 Transporter Name QUILLESO TRUCKING Driver Name (Print) X FRANK BARAJAS
 Address 415 ALDO AV Vehicle License No./State 9C34651 / CA
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121895 Driver Signature [Signature] Delivery Date 121895

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Authorized Agent _____ Signature [Signature] Receipt Date 121895

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID BRANNON ORG Generating Location _____
 Address 60 HILLS DALE MALL Address 575 PASADENA
SAN MATEO CA 94403 SAN LORENZO
 Phone No. 415-3459222 Phone No. _____

BFI Waste Code CA 409 120695 04280 Containers _____
 Description of Waste _____ Quantity _____ Units _____ No. _____ Type _____
SOIL _____
 Type
 D - Drum
 C - Carton
 B - Bag
 T - Truck
 P - Pounds
 Y - Yards
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name PETER SCHORMER Signature Peter Schormer Shipment Date 121895

TRANSPORTER

Truck No. 24 6 Phone No. 408 988 4021
 Transporter Name GALLIASEO Trucking Driver Name (Print) JOHN RAMIREZ
 Address 415 ALDO AV Vehicle License No./State 8C39366/CA
SANTACLOVE CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.
 Driver Signature John Ramirez Shipment Date 121895

I hereby certify that the above named material was delivered without incident to the destination listed below.
 Driver Signature John Ramirez Delivery Date 121895

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VALEO Rd LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Authorized Agent Signature [Signature] Receipt Date 121895

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID BROWN ORG Generating Location _____
 Address 60 HILSDALE MAIL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	Description of Waste	Quantity	Units	No.	Type	Containers
<u>CA A05 120695</u>	<u>SOIL</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>	
<u>CA 280A</u>						

- Type
 D - Drum
 G - Carton
 B - Bag
 T - Truck
 P - Pounds
 Y - Yards
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Peter Schurman Signature [Signature] Shipment Date 121895

TRANSPORTER

Truck No. (25) 01 GEO1 Phone No. 408-988-4021
 Transporter Name Gagliasso Trucking Driver Name (Print) D Tito Salas
 Address 415 ALDO AV Vehicle License No./State 9C14628 CA
SANTA CLARA CA 95405 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121895 Driver Signature [Signature] Delivery Date 121895

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature [Signature] Receipt Date 121895

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D. BOHANNON ORG Generating Location _____

Address 60 HILLSDALE MALL Address 575 PASEO GRANDE

SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code CA 405 120695 04280 Containers _____

Description of Waste	Quantity	Units	Containers	
			No.	Type
<u>SOIL</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>1</u>

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Peter Schurman Signature [Signature] Shipment Date 12/18/95

TRANSPORTER

Truck No. 26 90 Phone No. 408-988-4021

Transporter Name GAGLIASSO TRUCKING Driver Name (Print) GRADY PROCTOR

Address 415 ALDO AV Vehicle License No./State 9A15729 / CA

SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered with out incident to the destination listed below.

Driver Signature [Signature] Shipment Date 12/18/95 Driver Signature [Signature] Delivery Date 12/18/95

DESTINATION

Site Name BFI Phone No. 510-4470491

Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

Authorized Agent _____ Signature [Signature] Receipt Date 12/18/95

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID R. BOLLANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code CA 405 120695 04280 Containers _____
 Description of Waste Soil Quantity 20 Units Y No. 01 Type 1

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN Peter Schurman 121895
 Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Truck No. 27 007 Phone No. 408-988-4021
 Transporter Name GAGLIASSO TRUCKING Driver Name (Print) FRANK BARNAS
 Address AIS ALTO AV Vehicle License No./State 9C34551 / CA
SANTA CLARA CA 95054 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

X [Signature] 121895 X [Signature] 121895
 Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name BFI Phone No. 910-4470491
 Address VASCO RD - LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Authorized Agent Signature Receipt Date 121895

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID D BOHANNON ORG. Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	<u>CA</u>	<u>405</u>	<u>120695</u>	<u>04280</u>	Containers	Type
	Description of Waste			Quantity	Units	No.
	<u>Soil</u>			<u>2</u>	<u>V</u>	<u>01</u>

- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN Generator Authorized Agent Name
Peter Schurman Signature
121895 Shipment Date

TRANSPORTER

Truck No. (28) M-1 Phone No. 408-988-4021
 Transporter Name GAGLIASSO TRUCKING Driver Name (Print) DAVE PERKINS
 Address 415 ALDO AV Vehicle License No./State 2CA-449/CA
SANTA CLARA CA 94545 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.
Dave Perkins Driver Signature
121895 Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.
Dave Perkins Driver Signature
121895 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-44704911
 Address VACO RD, LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Authorized Agent Signature
121895 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID BOHANNON OREG Generating Location _____
 Address 60 HILLS DALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____
 BFI Waste Code CA A05 120695 04280 Containers _____

Description of Waste	Quantity	Units	Containers	
			No.	Type
<u>Soil</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>1</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN [Signature] 121895
 Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Truck No. 29 6 Phone No. 408 988 1021
 Transporter Name GAGLIASSO Driver Name (Print) JOHN RAMIREZ
 Address 445 ALDO Vehicle License No./State 8C383661CA
SANTA CLARA CA 95051 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.
[Signature] 121895 [Signature] 121895
 Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name BFI Phone No. _____
 Address VASCO

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
[Signature] 121895
 Authorized Agent Signature Receipt Date

PASS CODE _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID BOHANNON ORG Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SW LORENCO CA
 Phone No. 415-3458222 Phone No. _____
 BFI Waste Code CA 405 120695 04280 Containers _____

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
<u>Soil</u>	<u>20</u>	<u>Y</u>	<u>01</u>	<u>1</u>	<u>D</u>

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name R. G. HURMAN Signature [Signature] Shipment Date 121895

TRANSPORTER

Truck No. (30) 61 GEB Phone No. 408 9884021
 Transporter Name GAGLIASSO Driver Name (Print) TITO SALAS
 Address 415 ALDO Vehicle License No./State 7C 14628
SANTA CLARA Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 121895 Driver Signature [Signature] Delivery Date 121895

DESTINATION

Site Name BFI Phone No. 510-2470491
 Address VASCO RD

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

of Authorized Agent _____ Signature [Signature] Receipt Date 121895

PASS CODE _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name David D. Bohannon Org.

Generating Location _____

Address 60 Hillsdale Mall
San Mateo, CA 94403

Address 515 Paseo Grande
San Lorenzo, CA

Phone No. 415-3458222

Phone No. _____

BFI Waste Code CA 405 120695

04280

Containers

Description of Waste
Soil

Quantity	Units	No.	Type
<u>20</u>	<u>Y</u>	<u>01</u>	<u>T</u>

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Robert Maggnetti

Robert Maggnetti

121895

Generator Authorized Agent Name

Signature

Shipment Date

TRANSPORTER

Truck No. (31) Truck #90

Phone No. 408 988-4021

Transporter Name Gagliasso Trucking

Driver Name (Print) Grady Proctor

Address 415 Aldo Avenue
Santa Clara, CA 95054

Vehicle License No./State 9A 15729/CA

Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature]

121895

Driver Signature

Shipment Date

[Signature]

121895

Driver Signature

Delivery Date

DESTINATION

Site Name BFI

Phone No. 510-4470471

Address VASCO Road - Livermore

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

of Authorized Agent

[Signature]
Signature

121895
Receipt Date

PASS CODE _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID BOHANNON GRP Generating Location LEAS - 002
 Address 60 HILLSTALE MALL Address 575 FASEB CIRCLE
SAN MATEO CA 94403 SAN LORENZO CA

Phone No. 415-3458222 Phone No. -

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
<u>CA 405120695 04280</u>	<u>Soil</u>	<u>1</u>	<u>Y</u>	<u>1</u>	<u>1</u>	<u>Y</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name PETER SCHURMAN Signature [Signature] Shipment Date 022196

TRANSPORTER

Truck No. #58 Phone No. 408 432 6050
 Transporter Name SAND TRANSPORTATION Driver Name (Print) EDDIE CHAVEZ
 Address 1095 Rock Av Vehicle License No./State 9C49611 (CA)
SAN JOSE CA 95131 Vehicle Certification

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 022196 Driver Signature [Signature] Delivery Date 022196

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address 4001 N. VASCORO LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Authorized Agent Signature [Signature] Receipt Date 022196

Pass Code

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID BOHANNON GYER Generating Location _____
 Address 60 HILLSDALE MALL Address 575 POSEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	CA	A05	120695	04280A	Containers			Type
Description of Waste					Quantity	Units	No.	Type
Soil					20	Y	01	T

- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN Generator Authorized Agent Name
Peter Schurman Signature
022196 Shipment Date

TRANSPORTER

Truck No. (2) 20 Phone No. 408-432-6050
 Transporter Name SAND TRANSPORTATION Driver Name (Print) JIM LARKIN
 Address 1095 ROCK AV Vehicle License No./State 9A2310 (CA)
SAN JOSE CA 95131 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Jim Larkin Driver Signature 022196 Shipment Date
Jim Larkin Driver Signature 022196 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address 4001 N. VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Authorized Agent Signature Receipt Date 022196

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID BEHANNON GRP Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	CA	405	120695	04280A	Containers			Type
Description of Waste					Quantity	Units	No.	Type
Soil					20	Y	01	T

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

PETER SCHURMAN Generator Authorized Agent Name
Peter Schurman Signature
022196 Shipment Date

TRANSPORTER

Truck No. (3) 58 Phone No. 408 432 6050
 Transporter Name SAND TRANSPORTATION Driver Name (Print) EDDIE CHAVEZ
 Address 1095 Rock Av Vehicle License No./State 9C48611 (CA)
SAN JOSE CA Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.
Hector Chavez Driver Signature
022196 Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.
Hector Chavez Driver Signature
022196 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-447047
 Address 4001 N. VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

 Authorized Agent Signature
022196 Receipt Date

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name DAVID BOHANNON GRP Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA 94403 SAN LORENZO CA
 Phone No. 415-3458222 Phone No. _____

BFI Waste Code	<u>CA</u>	<u>A05</u>	<u>120695</u>	<u>04280A</u>	Containers	Type	
	Description of Waste			Quantity	Units	No.	Type
	<u>Soil</u>			<u>20</u>	<u>Y.</u>	<u>01</u>	<u>T</u>

- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name PETER SCHURMAN Signature [Signature] Shipment Date 022196

TRANSPORTER

Truck No. (4) 20 Phone No. 408-432-6050
 Transporter Name SAND TRANSPORTATION Driver Name (Print) JIM LARKIN
 Address 1095 ROCK AV Vehicle License No./State 9A2310 CA
SAN JOSE CA 95131 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.
 Driver Signature [Signature] Shipment Date 022196

I hereby certify that the above named material was delivered without incident to the destination listed below.
 Driver Signature [Signature] Delivery Date 022196

DESTINATION

Site Name BFI Phone No. 510-4470471
 Address 4001 N. VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Authorized Agent _____ Signature [Signature] Receipt Date 022196

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name PROHAWSON GROUP Generating Location _____
 Address 60 HILLSDALE MALL Address 575 PASEO GRANDE
SAN MATEO CA SAN LORENZO CA

Phone No. 415-3458222 Phone No. _____

BFI Waste Code CA A05 120695 04280A Containers _____
 Description of Waste _____ Quantity _____ Units _____ No. _____ Type _____
Soil... _____ 20 X 01 T

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Peter Schurman Signature Peter Schurman Shipment Date 022196

TRANSPORTER

Truck No. SJ 58 Phone No. 408 432 6050
 Transporter Name Grand Trans Driver Name (Print) EDDIE CRAVEZ
 Address 1095 Rock Vehicle License No./State 9C48611
S.J. CA 95131 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 022796 Driver Signature [Signature] Delivery Date 022196

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address VASCO RD LIVERMORE CA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

of Authorized Agent _____ Signature [Signature] Receipt Date 022796

Pass Code _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name Pederman Grog Generating Location _____
 Address 60 Hillsdale Mall Address 575 Paevo Grande
San Mateo San Lorenzo Ca

Phone No. 415-3428222 Phone No. _____

BFI Waste Code	<u>CA</u>	<u>405</u>	<u>120695</u>	<u>04280</u>	Containers	Type
	Description of Waste			Quantity	Units	No. Type
	<u>Concrete & Soil</u>			<u>20</u>	<u>Y</u>	<u>01 T</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name PETER SCHIRMER Signature [Signature] Shipment Date 022196

TRANSPORTER

Truck No. 620 Phone No. 408 345 8222
 Transporter Name Sand Trans Driver Name (Print) Jim LARKIN
 Address 1095 Rock Av Vehicle License No./State 9A2310 CA
S.J. Ca 95131 Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 022196 Driver Signature [Signature] Delivery Date 022196

DESTINATION

Site Name BFI Phone No. 510-4470491
 Address Wasco Livermore

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Authorized Agent Signature [Signature] Receipt Date 022196

Pass Code _____

APPENDIX D

Compaction Test Reports



(510) 659-1823
Fax (510) 659-6344

License # 572427

Environmental Services

3499 Edison Way, Fremont, CA. 94538

March 18, 1996
Job No. SII-002

Secor International, Inc.
1390 Willow Pass Road, Suite 360
Concord, California 94520-5250

Attention: Mr. Steve McCabe

Subject: Soil Density Testing Services, property at 575 Paseo Grande, San Lorenzo, California

Gentlemen:

This report contains the results of density testing on the excavation backfill of the above-mentioned site between January 8 through February 16, 1996. Field density test locations were selected at random and performed in accordance with ASTM Test Designation D 2922-91 ("Test Methods for Density of Soil and Soil-Aggregate In-place by Nuclear Methods [Shallow Depth]"); and the results are presented in the attached Table A. Relative compaction refers to the in-place dry density of the material, expressed as a percentage of the maximum dry density of the same material, as determined by the ASTM D1557-91 laboratory dry density procedures. The results of the laboratory compaction tests are presented in Table B.

Test locations and elevations were determined by pacing and hand level measurements from the northeast corner of the intersection of Paseo Grande and Larga Vista. These locations and elevations should be considered accurate only to the degree implied by the methods used. The excavation backfill was placed in accordance with generally accepted standards of geotechnical engineering practices and has met these compaction standards from total depth to finished grade; no other warranty is expressed or implied.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Thomas Meichtry', is written over a horizontal line.

Thomas Meichtry
President

TABLE A
 FIELD COMPACTION TEST RESULTS
 Slump Hole

Test No.	Date of Test (1996)	Test Location*	Elevation (ft.)	Max Dry Density (pcf)	Test Dry Density (pcf)	Moisture Content (%)	Relative Compaction (%)	Retest No.
1	01/12	N80/E70	7	143.0	135.4	5.3	95	
2	01/12	N60/E55	7	143.0	136.0	6.1	95	
3	01/12	N40/E40	7	143.0	136.6	5.7	96	
4	01/15	N70/E80	6	143.0	136.5	5.3	95	
5	01/15	N50/E60	6	143.0	136.1	4.7	95	
6	01/15	N40/E50	6	143.0	137.8	5.3	96	
7	01/15	N85/E80	5	143.0	141.4	5.7	99	
8	01/15	N65/E40	5	143.0	138.9	5.1	97	
9	01/15	N40/E80	5	143.0	139.9	5.6	98	
10	01/16	N40/E73	4	143.0	141.2	6.2	99	
11	01/16	N60/E78	4	143.0	137.1	7.2	96	
12	01/16	N75/E83	4	143.0	136.6	8.1	96	
13	01/16	N50/E78	3	143.0	136.5	6.6	95	
14	01/16	N65/E78	3	143.0	136.6	8.4	95	
15	01/16	N80/E88	3	143.0	135.7	7.1	95	
16	01/16	N80/E88	2	143.0	136.7	8.4	96	
17	01/16	N70/E78	2	143.0	135.6	10.0	95	
18	01/16	N40/E68	2	143.0	136.6	9.5	96	
19	01/17	N85/E78	5	143.0	135.4	7.9	95	
20	01/17	N85/E75	3½	143.0	135.1	9.4	95	
21	01/17	N85/E81	2	143.0	135.9	7.3	95	
22	01/17	N85/E78	1	143.0	135.1	10.9	95	
23	02/16	N30/E30	4½	143.0	127.2	9.6	90	
24	02/16	N15/E40	4	143.0	128.1	9.7	90	
25	02/16	N20/E25	4½	143.0	129.2	9.3	90	
26	02/16	N30/E30	4½	143.0	133.1	9.1	93	
27	02/16	N15/E40	4½	143.0	134.0	8.9	94	
28	02/16	N20/E25	4	143.0	135.6	9.0	95	
29	02/16	N30/E30	4½	143.0	136.2	8.8	95	
30	02/16	N15/E40	4½	143.0	135.8	9.1	95	

Note:

* = Test location taken from the northeast corner of the intersection of Larga Vista and Paseo Grande.

TABLE B
LABORATORY COMPACTION TEST RESULTS

Description of materials and corresponding laboratory compaction data, per ASTM Designation D1557-91, are listed below:

Sample Description	Optimum Moisture Content	Maximum Dry Density (pcf)
Grey Sand and Gravel (Aggregate Base - Lonestar, Sunol)	9.7	143.0

Project: BOHANNON - 575 PASEO GRANDE, SAN LORENZO, CA		Log of Boring/Monitoring Well:
Boring Location: ~110' N. OF P. GRANDE; 100' E. OF P. LARGA	Project No.: 70074-001-01	MW-1
Subcontractor and Equipment: WHD - MD B57	Logged By: ROBITAILLE	
Sampling Method: CONTINUOUS SPLIT SPOON	Monitoring Device: PID/OVM	
Start Date/Time: 5/10/96//1130	Finish Date/Time: 5/10/96//1230	
First Water (bgs): 12.25 FEET	Stabilized Water Level (bgs): 5.65 FEET	

Sample Number	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	Surface Elevation: 26.31 FT. Casing Top Elevation: 26.15 FT.	Boring Abandonment/ Well Construction Details
						LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	
		0					Traffic-rated Christy Box
		0				ASPHALT BASE FILL	2" Sch. 40 PVC Blank Casing
		1				BROWN (10YR 5/3) SAND (SW) loose, dry, very poorly sorted, trace small gravel (fill), fine to very coarse grained sand (5,95,0,0)	
		2					5% Bentonite Cement
	18/18	0				BROWN (10YR 5/3) SAND (SP) loose, dry, moderate well sorted, fine to medium grained sand (0,100,0,0)	
		3					
	18/18	0				VERY DARK GRAYISH BROWN (10YR 3.5/2) SILTY CLAY (CL) soft, moist (0,0,40,60)	Hydrated Bentonite
MW-1-4.5		4					
		5					
	18/15	0				VERY DARK GRAY (2.5Y N3/) CLAY (CL) moderate hard, dry (0,0,15,85)	
		6					
	18/15	0				DARK GREENISH GRAY (5G 4/1) AND LIGHT GRAY MOTTLED CLAY (CL) moderate hard, dry, with calcareous nodules (0,0,0,100)	2" Sch. 40 PVC 0.020" Slot Screen
MW-1-7.5		7					
		8				grades with faint product odor	
	18/16	6					
		9					
	18/16	10				grades moderate product odor	#2/12 Lonestar Sand
MW-1-10.5		380					
		11					
	18/16	12				DARK GRAYISH BROWN (10YR 4/2) SILTY CLAY (CL) moderate soft, wet, trace fine sand (0,5,40,55) found water in confined condition 1220 hrs.	
MW-1-12		30					
		13				grades to Clayey Silt (ML) (0,5,55,40)	
	18/18	5					
		14					
	18/18	15				grades increasing clay	Threaded End Cap

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Project: BOHANNON - 575 PASEO GRANDE, SAN LORENZO, CA		Log of Boring/Monitoring Well:
Boring Location: 23' N. OF P. GRANDE; 16' E. OF P. LARGA	Project No.: 70074-001-01	MW-2
Subcontractor and Equipment: WHD - MD B57	Logged By: ROBITAILLE	
Sampling Method: CONTINUOUS SPLIT SPOON	Monitoring Device: PID/OVM	Comments:
Start Date/Time: 5/10/96//1010	Finish Date/Time: 5/10/96//1100	
First Water (bgs): 13.8 FEET	Stabilized Water Level (bgs): 5.56 FEET	

Sample Number	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	Surface Elevation: 27.18 FT. Casing Top Elevation: 27.11 FT.	Boring Abandonment/ Well Construction Details
						LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	
		0					Traffic-rated Christy Box
		0				ASPHALT FILL MATERIAL	
		1				DARK GRAYISH BROWN (10YR 4/1.5) SANDY CLAY (CL) moderate hard, dry (0,20,0,80)	2" Sch. 40 PVC Blank Casing
		2					5% Bentonite Cement
MW-2-3.5	18/15	5				DARK GRAY (10YR 4/1) FINE SAND (SP) loose, moist, well sorted (0,95,5,0)	
		3					
MW-2-5	18/18	3.5				VERY DARK GRAY (10YR 3/1) CLAY (CL) moderate hard, moist (0,0,5,95)	Hydrated Bentonite
		4					
		5					
		6				grades Light Gray Mottled	
MW-2-6.5	18/18	100					
		7					2" Sch. 40 PVC 0.020" Slot Screen
		8					
		9				grades with moderate product odor	
MW-2-10	18/16	350					#2/12 Lonestar Sand
		10					
		11				NOTE: No water in boring at 14 feet. When the next sample was collected (14 to 15.5'), water quickly rose to ±8 feet bgs. (within 5 minutes).	
		12				grades with Dark Grayish Brown Mottling	
MW-2-12.5	18/15	850					
		13				YELLOWISH BROWN (10YR 5/4) AND LIGHT GRAY (10YR 6/1) MOTTLED SANDY CLAY (CL) moderate hard, moist (0,30,0,70)	
		25				found water in confined condition 1055 hrs.	
MW-2-14	18/18	14				BROWN (10YR 5/3) CLAYEY SAND (SC) moderate loose, wet, well sorted fine to very fine grained, trace silt (0,80,5,15)	
		15					Threaded End Cap
		9					

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Project: BOHANNON - 575 PASEO GRANDE, SAN LORENZO, CA
 Boring Location: ~10' E. OF P. LARGA; 100' N. OF P. GRANDE Project No: 70074-001-01
 Subcontractor and Equipment: WHD - MD B57 Logged By: ROBITAILLE
 Sampling Method: CONTINUOUS SPLIT SPOON Monitoring Device: PID/OVM
 Start Date/Time: 5/10/96//0830 Finish Date/Time: 5/10/96//0920
 First Water (bgs): 5.75 FEET Stabilized Water Level (bgs): 4.40 FEET

Log of Boring/Monitoring Well:
MW-3
 Comments:

Sample Number	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	Surface Elevation: 26.95 FT. Casing Top Elevation: 26.73 FT.	Boring Abandonment/ Well Construction Details
						LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	
		0					Traffic-rated Christy Box
		1					2" Sch. 40 PVC Blank Casing
		2					5% Bentonite Cement
18/3		3					Hydrated Bentonite
	6.4	4					
18/3		5				DARK BROWN (7.5YR 3/3) SANDY CLAYEY SILT (ML) soft, moist (3,17,60,20)	
		6				VERY DARK GRAY (7.5YR N3/) SAND (SP) loose, wet, abundant shell fragments, trace gravel to 1.5" dia., fine to coarse grained sand, predominantly medium grained, well sorted, strong product odor (5,95,0,0) found water 0850 hrs.	
MW-3-6.5		7					2" Sch. 40 PVC 0.020" Slot Screen
	560	8					
MW-3-7.5		9					
18/18		10					#2/12 Lonestar Sand
	318	11				VERY DARK GRAY SANDY CLAY (CL) soft, wet, trace silt (0,30,10,60)	
		12				grades Gray (5Y 4.5/1) Silty Clay (0,0,30,70)	
18/18		13				grades to Gray and Light Olive Brown Mottled Sandy Clay (CL) moderate hard, wet, fine grained sand, moderate product odor (0,40,0,60)	
	330	14				VERY DARK GRAY (7.5YR N3/) SAND (SP) loose, wet, trace clay, moderate product odor (0,95,0,5)	
18/18		15					Threaded End Cap
	280						

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Unified Soil Classification System

Coarse Grained Soils <small>(more than half of soil > No. 200 sieve)</small>	Gravels <small>(More than half of coarse fraction > no. 4 sieve size)</small>		GW	Well graded gravels or gravel-sand mixtures, little or no fines	
			GP	Poorly graded gravels or gravel-sand mixtures, little or no fines	
			GM	Sandy gravels, gravel-sand-silt mixtures	
			GC	Clayey gravels, gravel-sand-silt mixtures	
	Sands <small>(More than half of coarse fraction < no. 4 sieve size)</small>		SW	Well graded sands or gravelly sands, little or no fines	
			SP	Poorly graded sands or gravelly sands, little or no fines	
			SM	Silty sands, sand-silt mixtures	
			SC	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	
		Silts and Clays LL = < 50		ML	Inorganic silts and very fine sands, rock flour, silty fine sands or clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
	OL		Organic silts and organic silty clays of low plasticity		
Silts and Clays LL = > 50		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts		
		CH	Inorganic silts of high plasticity, fat clays		
		OH	Organic clays of high plasticity, organic silty clays, organic silts		
Highly Organic Soils			Pt	Peat and other highly organic soils	

Grain Size Chart

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel <small>coarse fine</small>	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 7.76 76.2 to 4.76 19.1 to 4.76
Sand <small>coarse medium fine</small>	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Sample Designation

	Drive Sample Interval
	Continuous Core Sample Interval
	First Encountered Water (during drilling)
	Stabilized Water Elevation (7/1/91)

APPENDIX F

Purge Data Sheets and Surveyor Report

GROUND WATER SAMPLE FIELD DATA SHEET

PROJECT NO: _____

WELL ID: MW-1 cont.

CLIENT/STATION #: _____

ADDRESS: _____

CASING DIAMETER (inches): 2 3 4 6 8 12 Other _____

GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other _____

TD _____ - DTW _____ X $\frac{\text{GALLON}}{\text{LINEAR FT.}}$ _____ X $\frac{\text{CASING}}{\text{VOLUME}}$ _____ = $\frac{\text{CALCULATED}}{\text{PURGE}}$ _____

ACTUAL PURGE

DATE PURGED: _____ START (2400 Hr) _____ END (2400 Hr) _____
 DATE SAMPLED: _____ START (2400 Hr) _____ END (2400 Hr) _____

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>14:48</u>	<u>9.0</u>	<u>7.34</u>	<u>1325</u>	<u>72.6</u>	<u>Bry</u>	<u>High</u>
<u>14:50</u>	<u>10.5</u>	<u>7.35</u>	<u>1296</u>	<u>72.6</u>	<u>"</u>	<u>"</u>
<u>14:55</u>	<u>12.0</u>	<u>7.32</u>	<u>1259</u>	<u>72.5</u>	<u>"</u>	<u>"</u>
<u>15:00</u>	<u>17.5</u>	<u>7.34</u>	<u>1248</u>	<u>72.3</u>	<u>"</u>	<u>"</u>
<u>15:05</u>	<u>15.5</u>	<u>7.36</u>	<u>1217</u>	<u>72.1</u>	<u>"</u>	<u>"</u>

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | |
|--|--|
| <input type="checkbox"/> 2" Bladder Pump <input type="checkbox"/> Bailer (Teflon®)
<input type="checkbox"/> Centrifugal Pump <input type="checkbox"/> Bailer (PVC)
<input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Dedicated
Other: _____ | <input type="checkbox"/> 2" Bladder Pump <input type="checkbox"/> Bailer (Teflon®)
<input type="checkbox"/> DDL Sampler <input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Dipper <input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Bailer Disposable <input type="checkbox"/> Dedicated
Other: _____ |
|--|--|

REMARKS: _____

PAGE _____ OF _____ PRINT NAME: _____
 SIGNATURE: _____

Well Development
GROUND WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70074-001-01

WELL ID: MW-2 (on corner)

CLIENT/STATION #: _____

ADDRESS: _____

CASING DIAMETER (inches): 2 3 4 6 8 12 Other _____
 GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other _____

TD 15.01 - DTW 6.24 x $\frac{\text{GALLON}}{\text{LINEAR FT.}}$ 0.17 x $\frac{\text{CASING VOLUME}}{\text{VOLUME}}$ 10 = $\frac{\text{CALCULATED PURGE}}$ 14.91 ACTUAL PURGE 15.0

DATE PURGED: 5-14-96 START (2400 Hr) 16:00 END (2400 Hr) 17:00
 DATE SAMPLED: _____ START (2400 Hr) _____ END (2400 Hr) _____

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>16:10</u>	<u>1.5</u>	<u>7.28</u>	<u>2300</u>	<u>71.1</u>	<u>B-n</u>	<u>Very High</u>
<u>16:15</u>	<u>3.0</u>	<u>7.26</u>	<u>2230</u>	<u>70.6</u>	<u>"</u>	<u>"</u>
<u>16:20</u>	<u>4.5</u>	<u>7.19</u>	<u>2080</u>	<u>70.3</u>	<u>"</u>	<u>"</u>
<u>16:25</u>	<u>6.0</u>	<u>7.15</u>	<u>1930</u>	<u>70.3</u>	<u>"</u>	<u>High</u>
<u>16:30</u>	<u>7.5</u>	<u>7.08</u>	<u>1768</u>	<u>69.9</u>	<u>"</u>	<u>"</u>

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Dedicated		<input checked="" type="checkbox"/> Bailer Disposable	<input type="checkbox"/> Dedicated
Other: <u>Disp. Bailer</u>		Other: _____	

REMARKS: Strong Chem odor; slight sheen

PAGE _____ OF _____ PRINT NAME: _____
 SIGNATURE: _____

GROUND WATER SAMPLE FIELD DATA SHEET

PROJECT NO: _____

WELL ID: MW-2 cont.

CLIENT/STATION #: _____

ADDRESS: _____

CASING DIAMETER (inches): 2 3 4 6 8 12 Other _____
 GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other _____

TD _____ - DTW _____ X $\frac{\text{GALLON}}{\text{LINEAR FT.}}$ _____ X $\frac{\text{CASING VOLUME}}{\text{VOLUME}}$ _____ = $\frac{\text{CALCULATED PURGE}}{\text{PURGE}}$ _____

ACTUAL PURGE

DATE PURGED: _____ START (2400 Hr) _____ END (2400 Hr) _____
 DATE SAMPLED: _____ START (2400 Hr) _____ END (2400 Hr) _____

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>16:35</u>	<u>9.0</u>	<u>7.03</u>	<u>1632</u>	<u>69.7</u>	<u>Brown</u>	<u>High</u>
<u>16:40</u>	<u>10.5</u>	<u>7.07</u>	<u>1626</u>	<u>70.4</u>	<u>"</u>	<u>"</u>
<u>16:45</u>	<u>12.0</u>	<u>7.22</u>	<u>1655</u>	<u>70.5</u>	<u>"</u>	<u>"</u>
<u>16:50</u>	<u>13.5</u>	<u>7.25</u>	<u>1602</u>	<u>69.8</u>	<u>"</u>	<u>"</u>
<u>16:55</u>	<u>15.0</u>	<u>7.41</u>	<u>1647</u>	<u>69.3</u>	<u>"</u>	<u>"</u>

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT

SAMPLING EQUIPMENT

<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Dedicated		<input type="checkbox"/> Bailer Disposable	<input type="checkbox"/> Dedicated

Other: _____ Other: _____

REMARKS: _____

PAGE _____ OF _____ PRINT NAME: _____
 SIGNATURE: _____

Well Development
GROUND WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70074-001-01

WELL ID: MW-3 (contaminated)

CLIENT/STATION #: _____

ADDRESS: _____

CASING DIAMETER (inches): 2 3 4 6 8 12 Other _____
 GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other _____

TD 14.19 - DTW 5.41 x $\frac{\text{GALLON}}{\text{LINEAR FT.}}$ 0.17 x $\frac{\text{CASING VOLUME}}{\text{VOLUME}}$ 10 = $\frac{\text{CALCULATED PURGE}}$ 14.93 ACTUAL PURGE 15.0

DATE PURGED: 5-14-91 START (2400 Hr) 15:15 END (2400 Hr) 16:10
 DATE SAMPLED: _____ START (2400 Hr) _____ END (2400 Hr) _____

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>15:20</u>	<u>1.5</u>	<u>7.05</u>	<u>1150</u>	<u>72.8</u>	<u>DK. grey</u>	<u>V. High</u>
<u>15:25</u>	<u>3.0</u>	<u>7.17</u>	<u>1116</u>	<u>71.1</u>	<u>"</u>	<u>"</u>
<u>15:30</u>	<u>4.5</u>	<u>7.17</u>	<u>1048</u>	<u>69.1</u>	<u>"</u>	<u>"</u>
<u>15:35</u>	<u>6.0</u>	<u>7.24</u>	<u>928</u>	<u>69.9</u>	<u>"</u>	<u>"</u>
<u>15:40</u>	<u>7.5</u>	<u>7.33</u>	<u>796</u>	<u>70.5</u>	<u>"</u>	<u>"</u>

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Dedicated		<input type="checkbox"/> Bailer Disposable	<input type="checkbox"/> Dedicated
Other: <u>Disp. Bailer</u>		Other: _____	

REMARKS: Strong chem. odor. Floating product sheen

PAGE _____ OF _____ PRINT NAME: _____
 SIGNATURE: _____

GROUND WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70074-001-01

WELL ID: MW-3 cont.

CLIENT/STATION #: _____

ADDRESS: _____

CASING DIAMETER (inches): 2 3 4 6 8 12 Other _____

GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other _____

TD _____ - DTW _____ X $\frac{\text{GALLON}}{\text{LINEAR FT.}}$ _____ X $\frac{\text{CASING}}{\text{VOLUME}}$ _____ = $\frac{\text{CALCULATED}}{\text{PURGE}}$ _____

ACTUAL PURGE

DATE PURGED: _____ START (2400 Hr) _____ END (2400 Hr) _____
 DATE SAMPLED: _____ START (2400 Hr) _____ END (2400 Hr) _____

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>15:45</u>	<u>9.0</u>	<u>7.26</u>	<u>777</u>	<u>70.5</u>	<u>Dk. gray</u>	<u>V. High</u>
<u>15:50</u>	<u>10.5</u>	<u>7.36</u>	<u>705</u>	<u>70.6</u>	<u>"</u>	<u>"</u>
<u>15:55</u>	<u>12.0</u>	<u>7.27</u>	<u>739</u>	<u>70.6</u>	<u>Dk. gray</u>	<u>High</u>
<u>16:00</u>	<u>13.5</u>	<u>7.35</u>	<u>664</u>	<u>70.5</u>	<u>Gray</u>	<u>"</u>
<u>16:05</u>	<u>15.0</u>	<u>7.33</u>	<u>678</u>	<u>70.5</u>	<u>"</u>	<u>"</u>

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | |
|--|---|
| <input type="checkbox"/> 2" Bladder Pump
<input type="checkbox"/> Centrifugal Pump
<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Dedicated
Other: _____ | <input type="checkbox"/> Bailer (Teflon®)
<input type="checkbox"/> Bailer (PVC)
<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Bailer Disposable
Other: _____ |
|--|---|

REMARKS: _____

PAGE _____ OF _____ PRINT NAME: _____
 SIGNATURE: _____

Located 116' from edge of base concrete (edge of sidewalk at road) 96' from high Vista (as above)

GROUND WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70074-001-01

WELL ID: MW-1

CLIENT/STATION #: _____

ADDRESS: _____

CASING DIAMETER (inches): 2 3 4 6 8 12 Other _____

GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other _____

TD 15.03 - DTW 5.65 x $\frac{\text{GALLON}}{\text{LINEAR FT.}}$ 0.17 x $\frac{\text{CASING VOLUME}}{\text{VOLUME}}$ 3 = $\frac{\text{CALCULATED PURGE}}$ 4.78 **ACTUAL PURGE** 6.0

DATE PURGED: 5-17 START (2400 Hr) 15:15 END (2400 Hr) 15:30
DATE SAMPLED: 5-17 START (2400 Hr) 15:40 END (2400 Hr) 16:00

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. ($\mu\text{mhos/cm @ } 25^\circ\text{C}$)	TEMPERATURE ($^\circ\text{F}$)	COLOR (visual)	TURBIDITY (visual)
<u>15:20</u>	<u>2.0</u>	<u>10.28</u>	<u>1204</u>	<u>69.5</u>	<u>Brn</u>	<u>High</u>
<u>15:25</u>	<u>4.0</u>	<u>7.99</u>	<u>1148</u>	<u>68.3</u>	<u>"</u>	<u>"</u>
<u>15:30</u>	<u>6.0</u>	<u>7.78</u>	<u>1124</u>	<u>67.8</u>	<u>"</u>	<u>Med-High</u>

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailor (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailor (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailor (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailor (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailor (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Dedicated | | <input checked="" type="checkbox"/> Bailor Disposable | <input type="checkbox"/> Dedicated |
| Other: <u>Disp. Bailor</u> | | Other: _____ | |

REMARKS: _____

PAGE _____ OF _____

PRINT NAME: _____
SIGNATURE: CLM

GROUND WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70074-001-01

WELL ID: MW-2 (on Cont.)

CLIENT/STATION #: _____

ADDRESS: _____

CASING DIAMETER (inches): 2 3 4 6 8 12 Other _____

GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other _____

TD 15.01 - DTW 5.56 × $\frac{\text{GALLON}}{\text{LINEAR FT.}}$ 0.17 × $\frac{\text{CASING VOLUME}}{\text{VOLUME}}$ 3 = $\frac{\text{CALCULATED PURGE}}$ 4.82 ACTUAL PURGE 6.0

DATE PURGED: 5-17-98 START (2400 Hr) 16:10 END (2400 Hr) 16:25
 DATE SAMPLED: 5-17-98 START (2400 Hr) 16:25 END (2400 Hr) 16:30

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>16:15</u>	<u>2.0</u>	<u>7.27</u>	<u>1555</u>	<u>66.4</u>	<u>B-m</u>	<u>High</u>
<u>16:20</u>	<u>4.0</u>	<u>7.19</u>	<u>1547</u>	<u>66.8</u>	<u>"</u>	<u>"</u>
<u>16:25</u>	<u>6.0</u>	<u>7.20</u>	<u>1543</u>	<u>66.9</u>	<u>"</u>	<u>"</u>

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT

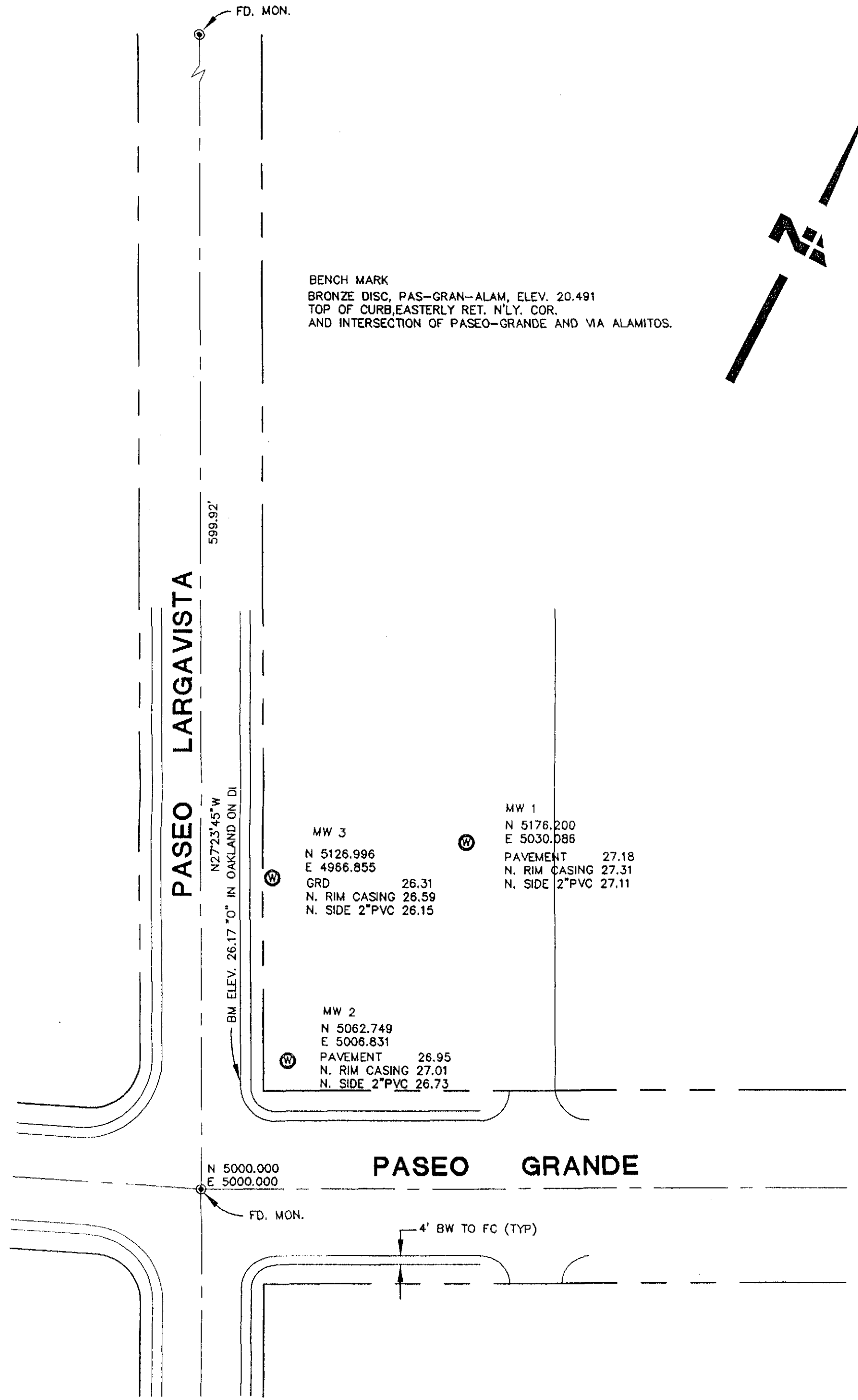
SAMPLING EQUIPMENT

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Dedicated | | <input checked="" type="checkbox"/> Bailer Disposable | <input type="checkbox"/> Dedicated |
- Other: Disp. Bailer Other: _____

REMARKS: _____

PAGE _____ OF _____ PRINT NAME: _____
 SIGNATURE: ELM

CAUTION:
 The engineer drawing these plans will not be responsible for
 or liable for, unauthorized changes to or uses of these plans.
 All changes to the data must be in writing and must be approved
 by the project or these plans.



DRAWING 1 1 OF 1 SHEETS 03-23-96-01	NOLTE and ASSOCIATES, Inc. Engineers / Planners / Surveyors 60 South Market Street, Suite 300, San Jose, CA 95113	WELL SURVEY FOR SECOR SAN LORENZO CALIFORNIA	DATE: 09/23/96 SCALE: 1"=40' DRAWN: EG CHECKED: DLA PROJ. ENGR: DLA PROJ. MGR.: DLA																											
			<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION DESCRIPTION</th> <th>APP'VD</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	BY	REVISION DESCRIPTION	APP'VD	BY																					
NO.	DATE	BY	REVISION DESCRIPTION	APP'VD	BY																									

GROUND WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70074-001-01 WELL ID: MW-3

CLIENT/STATION #: _____ ADDRESS: _____

CASING DIAMETER (inches): 2 3 4 6 8 12 Other _____
 GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other _____

TD 14.19-DTW 4.39 X $\frac{\text{GALLON}}{\text{LINEAR FT.}}$ 0.17 X $\frac{\text{CASING VOLUME}}{\text{VOLUME}}$ 3 = $\frac{\text{CALCULATED PURGE}}$ 5.0 ACTUAL PURGE 6.0

DATE PURGED: 5-17-96 START (2400 Hr) 16:40 END (2400 Hr) 17:00
 DATE SAMPLED: 5-17-96 START (2400 Hr) 17:10 END (2400 Hr) 17:20

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>16:50</u>	<u>2.0</u>	<u>8.92</u>	<u>480</u>	<u>66.1</u>	<u>Gray</u>	<u>High</u>
<u>16:55</u>	<u>4.0</u>	<u>8.78</u>	<u>442</u>	<u>67.3</u>	<u>"</u>	<u>"</u>
<u>17:00</u>	<u>6.0</u>	<u>9.25</u>	<u>439</u>	<u>67.9</u>	<u>"</u>	<u>"</u>

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Dedicated | | <input checked="" type="checkbox"/> Bailer Disposable | <input type="checkbox"/> Dedicated |
- Other: Disp. Bailer Other: _____

REMARKS: _____

PAGE _____ OF _____ PRINT NAME: _____
 SIGNATURE: CLW

APPENDIX G

Analytical Reports - Excavation

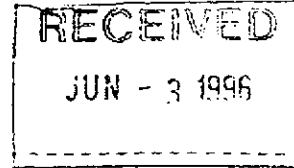


Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

Steve McCabe
SECOR
1390 Willow Pass Rd.
Concord, CA 94520

May 30, 1996



re: Bohannon hydrocarbons

Dear Mr. McCabe;

I have reviewed the chromatograms for samples, from the Bohannon Development project, which were reported as laboratory numbers 124343 and 124365. The TPH/extractable chromatogram patterns for these samples are similar to the pattern obtained from an asphalt sample which was analyzed last year. A copy of the asphalt chromatogram is attached.

Please call me at (510)-486-0900 if you have any other questions.

Sincerely,

Teresa Morrison
Project Manager

ASPHALT SAMPLE FROM SFO TEH Chromatogram GC15 CH A

ASPHALT

Sample Name : 119501-001 50:220

Sample #: 18566

Page 1 of 1

FileName : g:\gc15\cha\018A006.raw

Date : 1/18/95 3:57 PM

Method : TEH.ins

Time of Injection: 1/18/95 3:24 PM

Start Time : 0.00 min

End Time : 31.92 min

Low Point : 32.25 mV

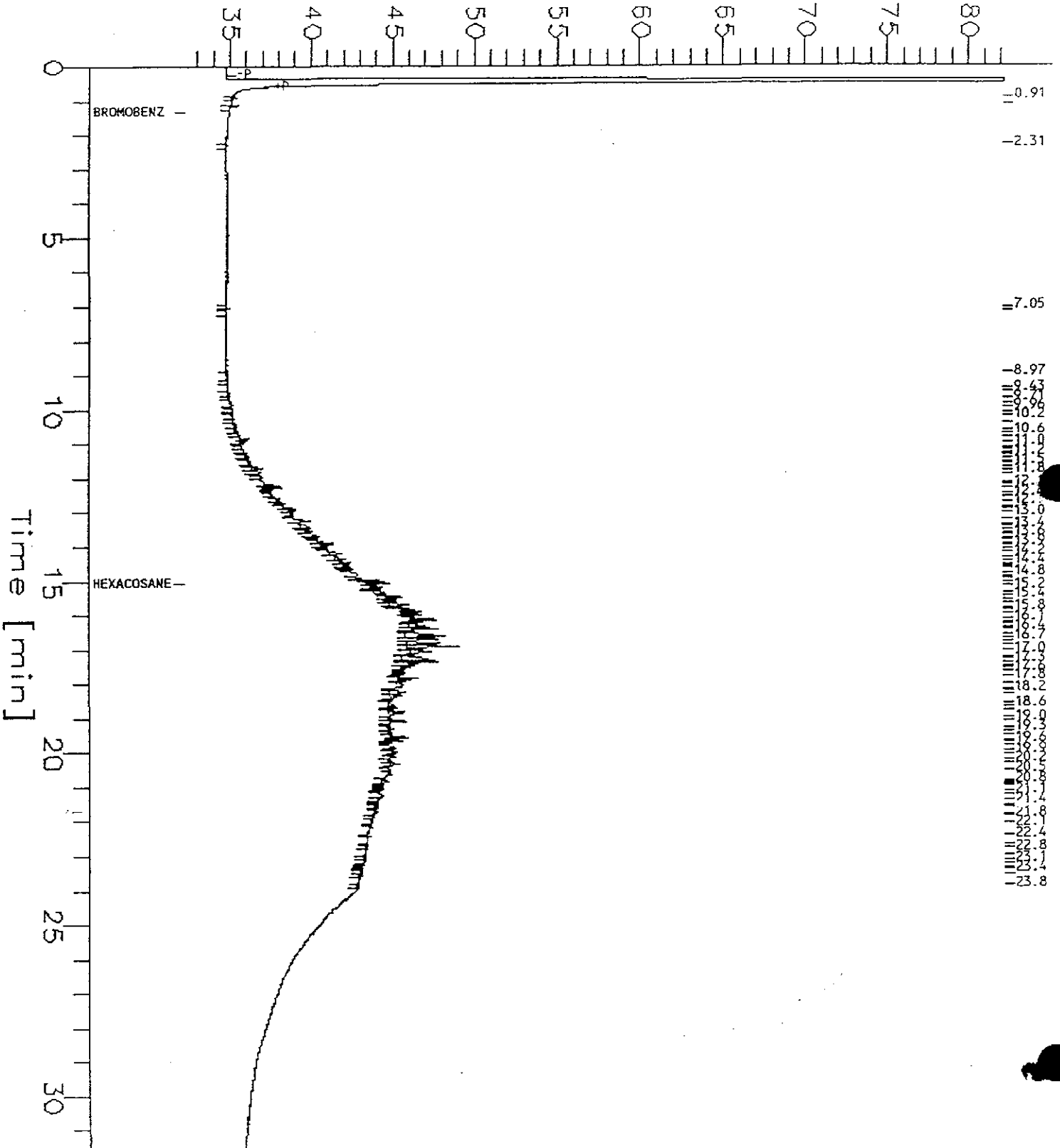
High Point : 82.25 mV

Scale Factor: -1

Plot Offset: 32 mV

Plot Scale: 50 mV

Response [mV]



8.97
 9.00
 9.03
 9.06
 9.09
 9.12
 9.15
 9.18
 9.21
 9.24
 9.27
 9.30
 9.33
 9.36
 9.39
 9.42
 9.45
 9.48
 9.51
 9.54
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 9.66
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 9.75
 9.78
 9.81
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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520


Date: 29-DEC-95
Lab Job Number: 123525
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Reviewed by:

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LABORATORY NUMBER: 123525
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

 Curtis & Tompkins, Ltd.
DATE SAMPLED: 11/28/95
DATE RECEIVED: 11/28/95
DATE EXTRACTED: 11/30/95
DATE ANALYZED: 11/30/95
DATE REPORTED: 11/30/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123525-001	SP-A	1,200	50
123525-002	SP-B	3,700	130
123525-METHOD BLANK		ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	95



Volatile Organics by GC/MS		
Client: Secor	Analysis Method: EPA 8240	
Project#: 70074-001-02	Prep Method: EPA 5030	
Location: Bohannon Development		
Field ID: SP-A	Sampled:	11/28/95
Lab ID: 123525-001	Received:	11/28/95
Matrix: Soil	Extracted:	11/29/95
Batch#: 24576	Analyzed:	11/29/95
Units: ug/Kg		
Diln Fac: 5		
Analyte	Result	Reporting Limit
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl Chloride	ND	50
Chloroethane	ND	50
Methylene Chloride	ND	100
Acetone	ND	100
Carbon Disulfide	ND	25
Trichlorofluoromethane	ND	25
1,1-Dichloroethene	ND	25
1,1-Dichloroethane	ND	25
trans-1,2-Dichloroethene	ND	25
cis-1,2-Dichloroethene	ND	25
Chloroform	ND	25
Freon 113	ND	25
1,2-Dichloroethane	ND	25
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	25
Carbon Tetrachloride	ND	25
Vinyl Acetate	ND	10
Bromodichloromethane	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
Trichloroethene	ND	25
Dibromochloromethane	ND	25
1,1,2-Trichloroethane	ND	25
Benzene	84	25
trans-1,3-Dichloropropene	ND	25
Bromoform	ND	25
2-Hexanone	ND	50
4-Methyl-2-Pentanone	ND	50
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	16 J	25
Chlorobenzene	ND	25
Ethylbenzene	380	25
Styrene	ND	25
m,p-Xylenes	360	25
o-Xylene	34	25
Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	93	68-126
Toluene-d8	99	87-125
Bromofluorobenzene	108	79-122

J: Estimated Value



Lab #: 123525

BATCH QC REPORT

EPA 8240 Volatile Organics		
Client: Secor	Analysis Method: EPA 8240	
Project#: 70074-001-02	Prep Method: EPA 5030	
Location: Bohannon Development		
METHOD BLANK		
Matrix: Soil	Prep Date: 11/29/95	
Batch#: 24576	Analysis Date: 11/29/95	
Units: ug/Kg		
Diln Fac: 1		

MB Lab ID: QC09782

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	20
Acetone	ND	20
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Vinyl Acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-Pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	102	68-126
Toluene-d8	99	87-125
Bromofluorobenzene	91	79-122



Lab #: 123525

BATCH QC REPORT

EPA 8240 volatile Organics	
Client: Secor	Analysis Method: EPA 8240
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 11/29/95
Batch#: 24576	Analysis Date: 11/29/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC09781

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	61.53	50	123	51-180
Trichloroethene	47.27	50	95	73-141
Benzene	50.71	50	101	78-142
Toluene	51.36	50	103	76-150
Chlorobenzene	48.75	50	98	83-129
Surrogate	%Rec	Limits		
1,2-Dichloroethane-d4	101	68-126		
Toluene-d8	99	87-125		
Bromofluorobenzene	93	79-122		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

NM: Not meaningful



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: SP-A
Lab ID: 123525-001
Matrix: Soil
Batch#: 24563
Units: ug/Kg
Diln Fac: 1

Sampled: 11/28/95
Received: 11/28/95
Extracted: 11/29/95
Analyzed: 11/30/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	1300	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	280 J	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: SP-A	Sampled: 11/28/95
Lab ID: 123525-001	Received: 11/28/95
Matrix: Soil	Extracted: 11/29/95
Batch#: 24563	Analyzed: 11/30/95
Units: ug/Kg	
Diln Fac: 1	

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	81	25-121
Phenol-d5	80	24-113
2,4,6-Tribromophenol	68	19-122
Nitrobenzene-d5	78	23-120
2-Fluorobiphenyl	75	30-115
Terphenyl-d14	83	18-137

J: Estimated Value



Lab #: 123525

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

METHOD BLANK

Matrix: Soil
Batch#: 24563
Units: ug/Kg
Diln Fac: 1

Prep Date: 11/29/95
Analysis Date: 11/30/95

MB Lab ID: QC09728

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700



Lab #: 123525

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

METHOD BLANK

Matrix: Soil
 Batch#: 24563
 Units: ug/Kg
 Diln Fac: 1

Prep Date: 11/29/95
 Analysis Date: 11/30/95

MB Lab ID: QC09728

Analyte	Result	Reporting Limit
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Rec	Recovery Limits
2-Fluorophenol	75	25-121
Phenol-d5	77	24-113
2,4,6-Tribromophenol	60	19-122
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	68	30-115
Terphenyl-d14	64	18-137



Lab #: 123525

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics			
Client: Secor	Analysis Method: EPA 8270		
Project#: 70074-001-02	Prep Method: EPA 3550		
Location: Bohannon Development			
BLANK SPIKE/BLANK SPIKE DUPLICATE			
Matrix: Soil	Prep Date: 11/29/95		
Batch#: 24563	Analysis Date: 11/30/95		
Units: ug/Kg			
Diln Fac: 1			

BS Lab ID: QC09729

Analyte	Spike Added	BS	%Rec #	Limits
Phenol	3333	2369	71	26-90
2-Chlorophenol	3333	2352	71	25-102
4-Chloro-3-methylphenol	3333	2530	76	26-103
4-Nitrophenol	3333	1874	56	11-114
Pentachlorophenol	3333	1667	10 *	17-109
1,4-Dichlorobenzene	1667	1180	71	28-104
N-Nitroso-di-n-propylamine	1667	1105	66	41-126
1,2,4-Trichlorobenzene	1667	1175	70	38-107
Acenaphthene	1667	1092	66	31-137
2,4-Dinitrotoluene	1667	1210	73	28-89
Pyrene	1667	1071	64	35-142
Surrogate	%Rec	Limits		
2-Fluorophenol	83	25-121		
Phenol-d5	81	24-113		
2,4,6-Tribromophenol	61	19-122		
Nitrobenzene-d5	81	23-120		
2-Fluorobiphenyl	72	30-115		
Terphenyl-d14	76	18-137		

BSD Lab ID: QC09730

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Phenol	3333	2497	75	26-90	5	<35
2-Chlorophenol	3333	2412	72	25-102	1	<50
4-Chloro-3-methylphenol	3333	2699	81	26-103	6	<33
4-Nitrophenol	3333	2458	74	11-114	28	<50
Pentachlorophenol	3333	1667	21	17-109	71 *	<47
1,4-Dichlorobenzene	1667	1182	71	28-104	0	<27
N-Nitroso-di-n-propylamine	1667	1133	68	41-126	3	<38
1,2,4-Trichlorobenzene	1667	1142	69	38-107	1	<23
Acenaphthene	1667	1169	70	31-137	6	<19
2,4-Dinitrotoluene	1667	1295	78	28-89	7	<47
Pyrene	1667	1163	70	35-142	9	<36
Surrogate	%Rec	Limits				
2-Fluorophenol	82	25-121				
Phenol-d5	83	24-113				
2,4,6-Tribromophenol	78	19-122				
Nitrobenzene-d5	79	23-120				
2-Fluorobiphenyl	77	30-115				
Terphenyl-d14	80	18-137				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 11 outside limits

Spike Recovery: 1 out of 22 outside limits



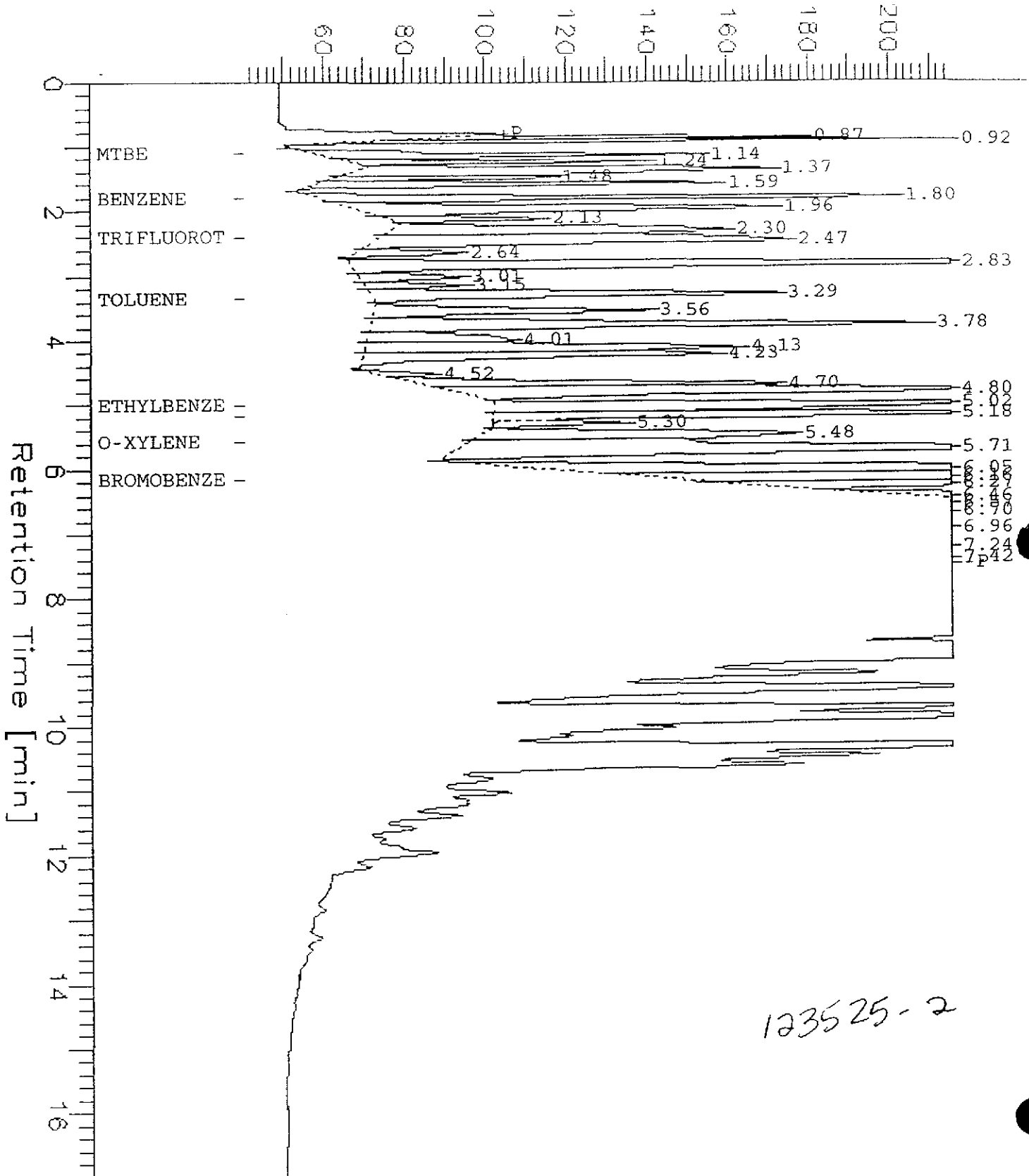
BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123525-002	SP-B	24572	11/28/95	11/30/95	11/30/95	

Analyte	Units	123525-002
Diln Fac:		1
Benzene	ug/Kg	<5
Toluene	ug/Kg	<5
Ethylbenzene	ug/Kg	820
m,p-Xylenes	ug/Kg	490
o-Xylene	ug/Kg	<5
Surrogate		
Trifluorotoluene	%REC	253 *
Bromobenzene	%REC	98

* Values outside of QC limits

Response [mV]



123525-2



Lab #: 123525

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 11/29/95
Batch#: 24572	Analysis Date: 11/29/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC09768

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	103	43-114
Bromobenzene	88	47-112



Lab #: 123525

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 11/29/95
Batch#: 24572	Analysis Date: 11/29/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC09767

Analyte	Result	Spike Added	%Rec #	Limits
Benzene *	103.1	100	103	80-120
Toluene	104.4	100	104	80-120
Ethylbenzene	101.2	100	101	80-120
m,p-Xylenes	210.1	200	105	80-120
o-Xylene	107.9	100	108	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	104	43-114		
Bromobenzene	92	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123525

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 11/28/95
Lab ID: 123530-004	Received Date: 11/28/95
Matrix: Soil	Prep Date: 11/30/95
Batch#: 24572	Analysis Date: 11/30/95
Units: ug/Kg	
Diln Fac: 1	

MS Lab ID: QC09769

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Benzene	100	<5.000	99.4	99	75-125
Toluene	100	<5.000	97.8	98	75-125
Ethylbenzene	100	<5.000	93.7	94	75-125
m,p-Xylenes	200	<5.000	192.3	96	75-125
o-Xylene	100	<5.000	102.5	103	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	99	43-114			
Bromobenzene	100	47-112			

MSD Lab ID: QC09770

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Benzene	100	100.8	101	75-125	1	<21
Toluene	100	99.3	99	75-125	2	<21
Ethylbenzene	100	94.4	94	75-125	1	<25
m,p-Xylenes	200	190	95	75-125	1	<25
o-Xylene	100	103	103	75-125	1	<25
Surrogate	%Rec	Limits				
Trifluorotoluene	101	43-114				
Bromobenzene	99	47-112				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits



Curtis & Tompkins, Ltd.

SAMPLE ID: SP-A
 LAB ID: 123525-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 11/28/95
 DATE RECEIVED: 11/28/95
 DATE REPORTED: 11/30/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24571	EPA 6010A	11/30/95
Arsenic	5.5	0.24	24571	EPA 6010A	11/30/95
Barium	180	0.48	24571	EPA 6010A	11/30/95
Beryllium	0.75	0.096	24571	EPA 6010A	11/30/95
Cadmium	1.1	0.048	24571	EPA 6010A	11/30/95
Chromium (total)	43	0.48	24571	EPA 6010A	11/30/95
Cobalt	9.3	0.96	24571	EPA 6010A	11/30/95
Copper	18	0.48	24571	EPA 6010A	11/30/95
Lead	9.5	0.14	24571	EPA 6010A	11/30/95
Mercury	ND	0.10	24560	EPA 7471	11/29/95
Molybdenum	ND	0.96	24571	EPA 6010A	11/30/95
Nickel	45	0.96	24571	EPA 6010A	11/30/95
Selenium	0.56	0.24	24571	EPA 6010A	11/30/95
Silver	ND	0.48	24571	EPA 6010A	11/30/95
Thallium	ND	0.24	24571	EPA 6010A	11/30/95
Vanadium	37	0.48	24571	EPA 6010A	11/30/95
Zinc	42	0.96	24571	EPA 6010A	11/30/95

ND = Not detected at or above reporting limit

CLIENT: Secor
JOB NUMBER: 123525

DATE REPORTED: 11/30/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24571	EPA 6010A	11/30/95
Arsenic	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Barium	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Beryllium	ND	0.1	mg/Kg	24571	EPA 6010A	11/30/95
Cadmium	ND	0.05	mg/Kg	24571	EPA 6010A	11/30/95
Chromium (total)	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Cobalt	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Copper	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Lead	ND	0.15	mg/Kg	24571	EPA 6010A	11/30/95
Mercury	ND	0.1	mg/Kg	24560	EPA 7471	11/29/95
Molybdenum	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Nickel	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Selenium	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Silver	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Thallium	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Vanadium	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Zinc	ND	1	mg/Kg	24571	EPA 6010A	11/30/95

ND = Not Detected at or above reporting limit

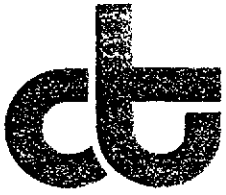


CLIENT: Secor
JOB NUMBER: 123525

DATE REPORTED: 11/30/95

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	518	533	ug/L	104	107	106	3	24571	EPA 6010A	11/30/95
Arsenic	2000	1760	1830	ug/L	88	92	90	4	24571	EPA 6010A	11/30/95
Barium	2000	1850	1950	ug/L	93	98	96	5	24571	EPA 6010A	11/30/95
Beryllium	50	49	51.6	ug/L	98	103	101	5	24571	EPA 6010A	11/30/95
Cadmium	50	47.7	50.2	ug/L	95	100	98	5	24571	EPA 6010A	11/30/95
Chromium (total)	200	187	196	ug/L	94	98	96	5	24571	EPA 6010A	11/30/95
Cobalt	500	464	485	ug/L	93	97	95	4	24571	EPA 6010A	11/30/95
Copper	250	234	245	ug/L	94	98	96	5	24571	EPA 6010A	11/30/95
Lead	2000	459	480	ug/L	92	96	94	5	24571	EPA 6010A	11/30/95
Mercury	5	5.073	4.906	ug/L	102	98	100	3	24560	EPA 7470	11/29/95
Molybdenum	400	359	376	ug/L	90	94	92	5	24571	EPA 6010A	11/30/95
Nickel	500	464	486	ug/L	93	97	95	5	24571	EPA 6010A	11/30/95
Selenium	2000	1680	1740	ug/L	84	87	86	4	24571	EPA 6010A	11/30/95
Silver	100	95.5	99.9	ug/L	96	100	98	5	24571	EPA 6010A	11/30/95
Thallium	2000	1860	1950	ug/L	93	98	96	5	24571	EPA 6010A	11/30/95
Vanadium	500	464	486	ug/L	93	97	95	5	24571	EPA 6010A	11/30/95
Zinc	500	423	442	ug/L	85	88	87	4	24571	EPA 6010A	11/30/95



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA

Date: 05-DEC-95
Lab Job Number: 123556
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Reviewed by:

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LABORATORY NUMBER: 123556-001
 CLIENT: SECOR
 PROJECT ID: 70074-001-02
 LOCATION: BOHANNON DEVELOPMENT
 SAMPLE ID: SP-B



Curtis & Tompkins, Ltd

DATE SAMPLED: 11/28/95
 DATE RECEIVED: 11/28/95
 DATE REQUESTED: 12/01/95
 DATE REPORTED: 12/05/95

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Reactive Cyanide	ND	mg/Kg	10	SW-846 Section 7.3.3.2
Reactive Sulfide	ND	mg/Kg	10	SW-846 Section 7.3.4.2
Ignitability	Does Not Ignite			SW-846 Section 7.1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY	Analysis Date	RPD, %	RECOVERY, %
Cyanide	12/04/95	<1	71
Sulfide	12/04/95	<1	61

LABORATORY NUMBER: 123556-METHOD BLANK
 CLIENT: SECOR
 PROJECT ID: 70074-001-02
 LOCATION: BOHANNON DEVELOPMENT
 SAMPLE ID: MB

DATE REPORTED: 12/05/95
 Curtis & Tompkins, Ltd.

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Reactive Cyanide	ND	mg/Kg	10	SW-846 Section 7.3.3.2
Reactive Sulfide	ND	mg/Kg	10	SW-846 Section 7.3.4.2
Ignitability	Does Not Ignite			SW-846 Section 7.1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY	Analysis Date	RPD, %	RECOVERY, %
Cyanide	12/04/95	<1	71
Sulfide	12/04/95	<1	61



Client: Secor

Laboratory Login Number: 123556

Project Name: Bohannon Development
Project Number: 70074-001-02

Report Date: 05 December 95

ANALYSIS: pH

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	Method	Analyst	QC	Batch
123556-001	SP-B	Soil	28-NOV-95	28-NOV-95	04-DEC-95	8.1	SU #	EPA 9045	TR		24645

Soil pH measured in 0.01 M CaCl2



Q C B a t c h R e p o r t

Client: Secor
Project Name: Bohannon Development
Project Number: 70074-001-02

Laboratory Login Number: 123556
Report Date: 05 December 95

ANALYSIS: pH

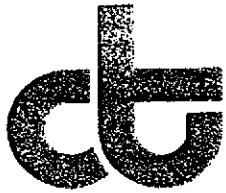
QC Batch Number: 24645

Calibration Verification Results

Sample	Result	TV	Difference	Limit	Analyzed
ICV	6.94	7.00	.06	< 0.10	04-DEC-95
CCV	6.95	7.00	.05	< 0.10	04-DEC-95

Sample Duplicate Results

Sample	Duplicate	RPD	Analyzed
8.08	8.01	.9%	04-DEC-95



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA

Date: 30-NOV-95
Lab Job Number: 123526
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Tueak Morris

Reviewed by:

Tracy B. B. B.

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LABORATORY NUMBER: 123526
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

dt Curtis & Tompkins, Ltd.
DATE SAMPLED: 11/28/95
DATE RECEIVED: 11/28/95
DATE EXTRACTED: 11/30/95
DATE ANALYZED: 11/30/95
DATE REPORTED: 11/30/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123526-001	A-1	2,000	63
123526-METHOD BLANK		ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %

2

RECOVERY, %

95



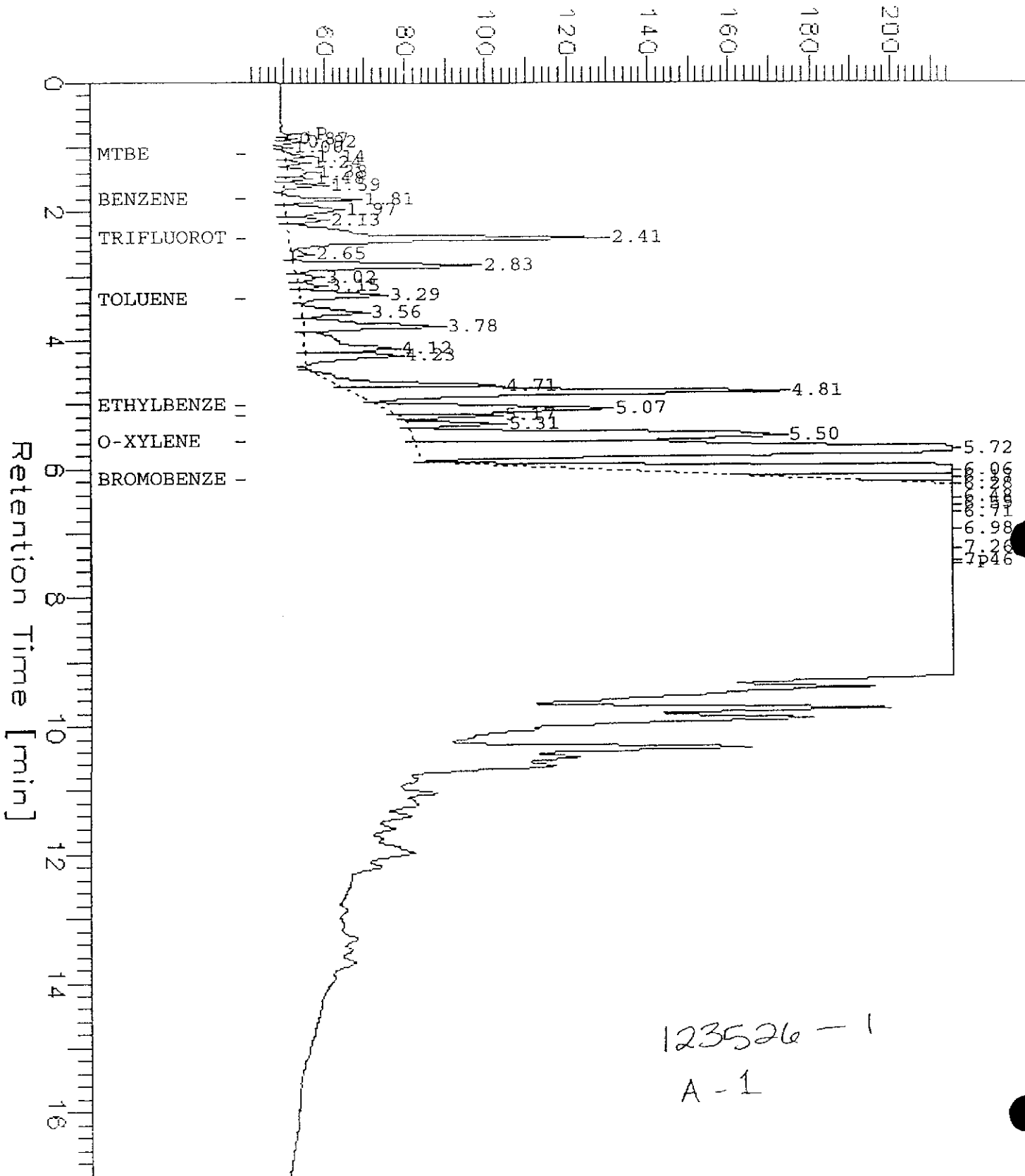
BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123526-001	A-1	24572	11/28/95	11/29/95	11/29/95	

Analyte	Units	123526-001
Diln Fac:		1
Benzene	ug/Kg	<5
Toluene	ug/Kg	<5
Ethylbenzene	ug/Kg	<5
m,p-Xylenes	ug/Kg	50
o-Xylene	ug/Kg	<5
Surrogate		
Trifluorotoluene	%REC	169 *
Bromobenzene	%REC	84

* Values outside of QC limits

Response [mV]





Lab #: 123526

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 11/29/95
Batch#: 24572	Analysis Date: 11/29/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC09768

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	103	43-114
Bromobenzene	88	47-112



Lab #: 123526

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 11/29/95
Batch#: 24572	Analysis Date: 11/29/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC09767

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	103.1	100	103	80-120
Toluene	104.4	100	104	80-120
Ethylbenzene	101.2	100	101	80-120
m,p-Xylenes	210.1	200	105	80-120
o-Xylene	107.9	100	108	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	104	43-114		
Bromobenzene	92	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123526

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 11/28/95
Lab ID: 123530-004	Received Date: 11/28/95
Matrix: Soil	Prep Date: 11/30/95
Batch#: 24572	Analysis Date: 11/30/95
Units: ug/Kg	
Diln Fac: 1	

MS Lab ID: QC09769

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Benzene	100	<5.000	99.4	99	75-125
Toluene	100	<5.000	97.8	98	75-125
Ethylbenzene	100	<5.000	93.7	94	75-125
m,p-Xylenes	200	<5.000	192.3	96	75-125
o-Xylene	100	<5.000	102.5	103	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	99	43-114			
Bromobenzene	100	47-112			

MSD Lab ID: QC09770

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Benzene	100	100.8	101	75-125	1	<21
Toluene	100	99.3	99	75-125	2	<21
Ethylbenzene	100	94.4	94	75-125	1	<25
m,p-Xylenes	200	190	95	75-125	1	<25
o-Xylene	100	103	103	75-125	1	<25
Surrogate	%Rec	Limits				
Trifluorotoluene	101	43-114				
Bromobenzene	99	47-112				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits



Curtis & Tompkins, Ltd.

SAMPLE ID: A-1
 LAB ID: 123526-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 11/28/95
 DATE RECEIVED: 11/28/95
 DATE REPORTED: 11/30/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24571	EPA 6010A	11/30/95
Arsenic	3.3	0.25	24571	EPA 6010A	11/30/95
Barium	180	0.50	24571	EPA 6010A	11/30/95
Beryllium	0.82	0.10	24571	EPA 6010A	11/30/95
Cadmium	1.1	0.050	24571	EPA 6010A	11/30/95
Chromium (total)	47	0.50	24571	EPA 6010A	11/30/95
Cobalt	8.6	1.0	24571	EPA 6010A	11/30/95
Copper	20	0.50	24571	EPA 6010A	11/30/95
Lead	8.5	0.15	24571	EPA 6010A	11/30/95
Mercury	ND	0.10	24560	EPA 7471	11/29/95
Molybdenum	ND	1.0	24571	EPA 6010A	11/30/95
Nickel	44	1.0	24571	EPA 6010A	11/30/95
Selenium	0.35	0.25	24571	EPA 6010A	11/30/95
Silver	ND	0.50	24571	EPA 6010A	11/30/95
Thallium	ND	0.25	24571	EPA 6010A	11/30/95
Vanadium	35	0.50	24571	EPA 6010A	11/30/95
Zinc	39	1.0	24571	EPA 6010A	11/30/95

ND = Not detected at or above reporting limit

CLIENT: Secor
JOB NUMBER: 123526

DATE REPORTED: 11/30/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24571	EPA 6010A	11/30/95
Arsenic	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Barium	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Beryllium	ND	0.1	mg/Kg	24571	EPA 6010A	11/30/95
Cadmium	ND	0.05	mg/Kg	24571	EPA 6010A	11/30/95
Chromium (total)	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Cobalt	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Copper	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Lead	ND	0.15	mg/Kg	24571	EPA 6010A	11/30/95
Mercury	ND	0.1	mg/Kg	24560	EPA 7471	11/29/95
Molybdenum	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Nickel	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Selenium	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Silver	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Thallium	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Vanadium	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Zinc	ND	1	mg/Kg	24571	EPA 6010A	11/30/95

ND = Not Detected at or above reporting limit

CLIENT: Secor
JOB NUMBER: 123526

DATE REPORTED: 11/30/95

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	518	533	ug/L	104	107	106	3	24571	EPA 6010A	11/30/95
Arsenic	2000	1760	1830	ug/L	88	92	90	4	24571	EPA 6010A	11/30/95
Barium	2000	1850	1950	ug/L	93	98	96	5	24571	EPA 6010A	11/30/95
Beryllium	50	49	51.6	ug/L	98	103	101	5	24571	EPA 6010A	11/30/95
Cadmium	50	47.7	50.2	ug/L	95	100	98	5	24571	EPA 6010A	11/30/95
Chromium (total)	200	187	196	ug/L	94	98	96	5	24571	EPA 6010A	11/30/95
Cobalt	500	464	485	ug/L	93	97	95	4	24571	EPA 6010A	11/30/95
Copper	250	234	245	ug/L	94	98	96	5	24571	EPA 6010A	11/30/95
Lead	2000	459	480	ug/L	92	96	94	5	24571	EPA 6010A	11/30/95
Mercury	5	5.073	4.906	ug/L	102	98	100	3	24560	EPA 7470	11/29/95
Molybdenum	400	359	376	ug/L	90	94	92	5	24571	EPA 6010A	11/30/95
Nickel	500	464	486	ug/L	93	97	95	5	24571	EPA 6010A	11/30/95
Selenium	2000	1680	1740	ug/L	84	87	86	4	24571	EPA 6010A	11/30/95
Silver	100	95.5	99.9	ug/L	96	100	98	5	24571	EPA 6010A	11/30/95
Thallium	2000	1860	1950	ug/L	93	98	96	5	24571	EPA 6010A	11/30/95
Vanadium	500	464	486	ug/L	93	97	95	5	24571	EPA 6010A	11/30/95
Zinc	500	423	442	ug/L	85	88	87	4	24571	EPA 6010A	11/30/95

123526

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: (510) 686-9280

Additional documents are attached, and are a part of this Record.
 Job Name: Behanham
 Location: San Lorenzo

Project # 200741-001-02 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis & Temple
 Turnaround Time 24-hour

Analysis Request

Sampler's Name Charles Melancon
 Sampler's Signature [Signature]

Sample ID	Date	Time	Matrix
A-1	11/28/95	13:10	soil

HCID	TPHd/BTEX/TPH-G 8015 (modified)/8020	TPHd/TPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GCMS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GCMS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
	X		X										1

Special Instructions/Comments:

Relinquished by: [Signature]
 Sign [Signature]
 Print Charles Melancon
 Company SECOR
 Time 15:30 Date 11/28/95

Received by: [Signature]
 Sign [Signature]
 Print Jose P. Garcia
 Company CRAT
 Time 15:30 Date 11/28/95

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____
 Client: _____
 Client Contact: _____
 Client Phone: _____



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 29-DEC-96
Lab Job Number: 123539
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Reviewed by:

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TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123539-001	S-NW-1	24567	11/29/95	11/29/95	11/30/95	
123539-002	S-EW-1	24567	11/29/95	11/29/95	11/30/95	
123539-003	S-EW-2	24567	11/29/95	11/29/95	11/30/95	
123539-004	S-SW-1	24567	11/29/95	11/29/95	11/30/95	

Analyte	Units	123539-001	123539-002	123539-003	123539-004
Diln Fac:		1	1	1	1
Kerosene Range	mg/Kg	<1	<1	<1	<1
Diesel Range	mg/Kg	<1	<1	<1	<1
Motor Oil Range	mg/Kg	<25	<25	<25	<25
Surrogate					
Hexacosane	%REC	95	83	108	76



TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123539-005	S-WW-1	24567	11/29/95	11/29/95	11/30/95	

Analyte	Units	123539-005
Diln Fac:		1
Kerosene Range	mg/Kg	<1
Diesel Range	mg/Kg	<1
Motor Oil Range	mg/Kg	<25
Surrogate		
Hexacosane	%REC	99



Lab #: 123539

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: SHAKER TABLE
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 11/29/95
Batch#: 24567	Analysis Date: 11/30/95
Units: mg/Kg	
Diln Fac: 1	

MB Lab ID: QC09742

Analyte	Result	
Kerosene Range	<1.0	✓
Diesel Range	<1.0	
Motor Oil Range	<25	
Surrogate	%Rec	Recovery Limits
Hexacosane	106	60-140 ✓



Lab #: 123539

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons			
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)		
Project#: 70074-001-02	Prep Method: SHAKER TABLE		
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil	Prep Date: 11/29/95		
Batch#: 24567	Analysis Date: 11/30/95		
Units: mg/Kg			
Diln Fac: 1			

LCS Lab ID: QC09743

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	22.6	51.3	88 ✓	60-140 ?
Surrogate	%Rec	Limits	144?	
Hexacosane	121	60-140		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123539-001	S-NW-1	24572	11/29/95	11/30/95	11/30/95	
123539-002	S-EW-1	24572	11/29/95	11/30/95	11/30/95	
123539-003	S-EW-2	24572	11/29/95	11/30/95	11/30/95	
123539-004	S-SW-1	24572	11/29/95	11/30/95	11/30/95	

Analyte	Units	123539-001	123539-002	123539-003	123539-004
Diln Fac:		1	1	1	1
Gasoline	mg/Kg	7.4Y	<1	<1	<1
Mineral Spirits	mg/Kg	20	<2	<2	<2
Surrogate					
Trifluorotoluene	%REC	100	99	98	97 ✓
Bromobenzene	%REC	97	95	92	95

Y: Sample exhibits fuel pattern which does not resemble standard



TVH-Total Volatile Hydrocarbons:

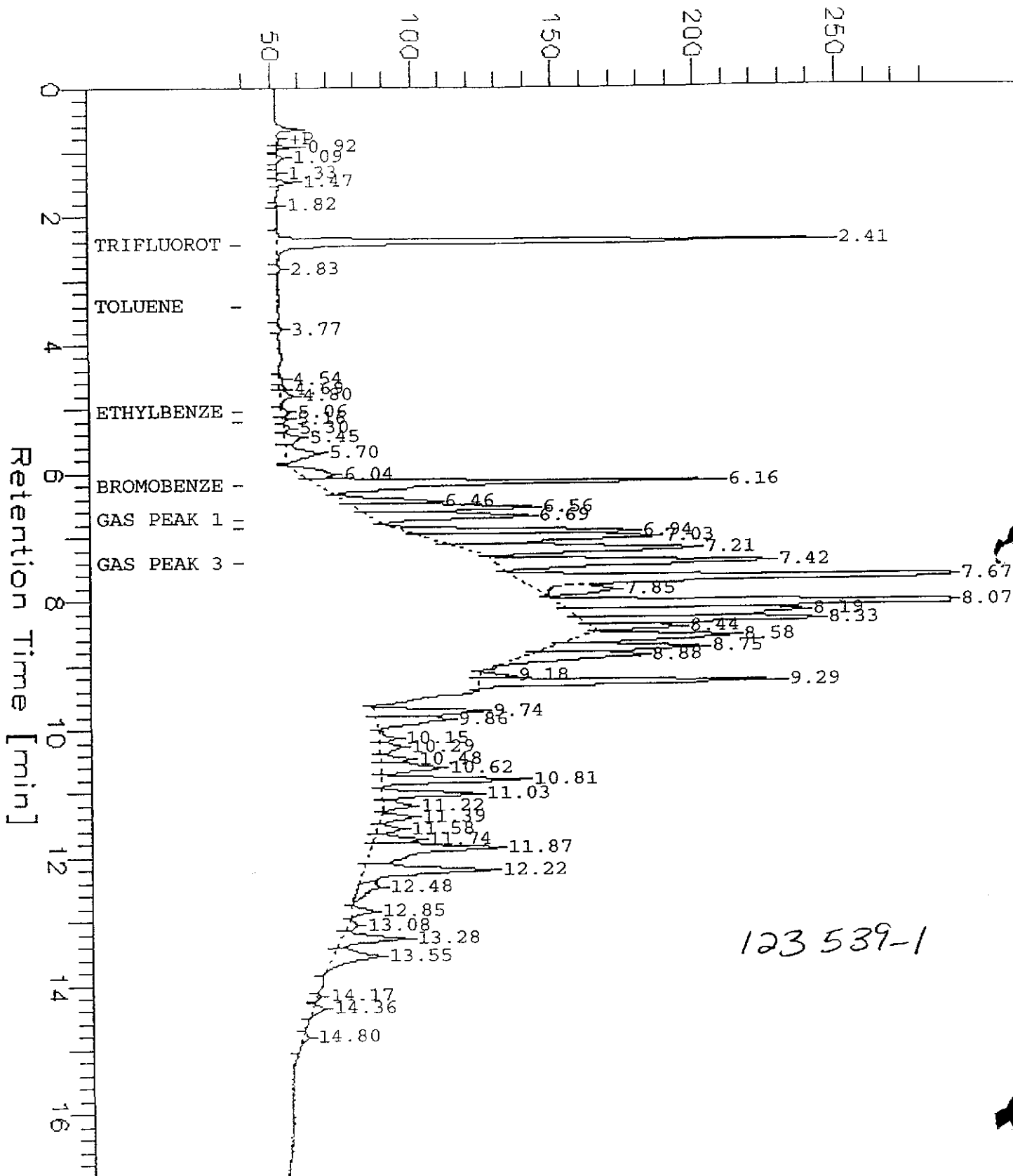
Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123539-005	S-WW-1	24572	11/29/95	11/30/95	11/30/95	

Analyte	Units	123539-005
Diln Fac:		1
Gasoline	mg/Kg	<1
Mineral Spirits	mg/Kg	<2
Surrogate		
Trifluorotoluene	%REC	99 ✓
Bromobenzene	%REC	98

Response [mV]





Lab #: 123539

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 24572
Units: mg/Kg
Diln Fac: 1

Prep Date: 11/29/95
Analysis Date: 11/29/95

MB Lab ID: QC09768

Analyte	Result	
Gasoline	<1.0	
Mineral Spirits	<2.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	97	52-127
Bromobenzene	82	45-140



BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123539-005	S-WW-1	24572	11/29/95	11/30/95	11/30/95	

Analyte	Units	123539-005
Diln Fac:		1
Benzene	ug/Kg	<5
Toluene	ug/Kg	<5
Ethylbenzene	ug/Kg	<5
m,p-Xylenes	ug/Kg	<5
o-Xylene	ug/Kg	<5
Surrogate		
Trifluorotoluene	%REC	98
Bromobenzene	%REC	97



Lab #: 123539

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 11/29/95
Batch#: 24572	Analysis Date: 11/29/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC09768

Analyte	Result		Recovery Limits
Benzene	<5.0	✓	
Toluene	<5.0		
Ethylbenzene	<5.0		
m,p-Xylenes	<5.0		
o-Xylene	<5.0		
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	103		43-114 ✓
Bromobenzene	88		47-112



Lab #: 123539

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 11/29/95
Batch#: 24572	Analysis Date: 11/29/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC09767

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	103.1	100	103	80-120
Toluene	104.4	100	104	80-120
Ethylbenzene	101.2	100	101	80-120
m,p-Xylenes	210.1	200	105	80-120
o-Xylene	107.9	100	108	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	104	43-114		✓
Bromobenzene	92	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123539

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 11/28/95
Lab ID: 123530-004	Received Date: 11/28/95
Matrix: Soil	Prep Date: 11/30/95
Batch#: 24572	Analysis Date: 11/30/95
Units: ug/Kg	
Diln Fac: 1	

MS Lab ID: QC09769

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Benzene	100	<5.000	99.4	99	75-125
Toluene	100	<5.000	97.8	98	75-125
Ethylbenzene	100	<5.000	93.7	94	75-125
m,p-Xylenes	200	<5.000	192.3	96	75-125
o-Xylene	100	<5.000	102.5	103	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	99	43-114			
Bromobenzene	100	47-112			

MSD Lab ID: QC09770

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Benzene	100	100.8	101	75-125	1	<21
Toluene	100	99.3	99	75-125	2	<21
Ethylbenzene	100	94.4	94	75-125	1	<25
m,p-Xylenes	200	190	95	75-125	1	<25
o-Xylene	100	103	103	75-125	1	<25
Surrogate	%Rec	Limits				
Trifluorotoluene	101	43-114				
Bromobenzene	99	47-112				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits



Curtis & Tompkins, Ltd.

SAMPLE ID: S-NW-1
 LAB ID: 123539-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 11/29/95
 DATE RECEIVED: 11/29/95
 DATE REPORTED: 11/30/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24571	EPA 6010A	11/30/95
Arsenic	3.9	0.25	24571	EPA 6010A	11/30/95
Barium	190	0.50	24571	EPA 6010A	11/30/95
Beryllium	0.78	0.10	24571	EPA 6010A	11/30/95
Cadmium	1.0	0.050	24571	EPA 6010A	11/30/95
Chromium (total)	41	0.50	24571	EPA 6010A	11/30/95
Cobalt	9.5	1.0	24571	EPA 6010A	11/30/95
Copper	19	0.50	24571	EPA 6010A	11/30/95
Lead	7.2	0.15	24571	EPA 6010A	11/30/95
Mercury	ND	0.10	24579	EPA 7471	11/30/95
Molybdenum	ND	1.0	24571	EPA 6010A	11/30/95
Nickel	47	1.0	24571	EPA 6010A	11/30/95
Selenium	0.48	0.25	24571	EPA 6010A	11/30/95
Silver	ND	0.50	24571	EPA 6010A	11/30/95
Thallium	ND	0.25	24571	EPA 6010A	11/30/95
Vanadium	29	0.50	24571	EPA 6010A	11/30/95
Zinc	39	1.0	24571	EPA 6010A	11/30/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: S-EW-1
 LAB ID: 123539-002
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 11/29/95
 DATE RECEIVED: 11/29/95
 DATE REPORTED: 11/30/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24571	EPA 6010A	11/30/95
Arsenic	3.7	0.25	24571	EPA 6010A	11/30/95
Barium	170	0.50	24571	EPA 6010A	11/30/95
Beryllium	0.66	0.099	24571	EPA 6010A	11/30/95
Cadmium	0.86	0.050	24571	EPA 6010A	11/30/95
Chromium (total)	36	0.50	24571	EPA 6010A	11/30/95
Cobalt	7.8	0.99	24571	EPA 6010A	11/30/95
Copper	16	0.50	24571	EPA 6010A	11/30/95
Lead	6.3	0.15	24571	EPA 6010A	11/30/95
Mercury	ND	0.10	24579	EPA 7471	11/30/95
Molybdenum	ND	0.99	24571	EPA 6010A	11/30/95
Nickel	39	0.99	24571	EPA 6010A	11/30/95
Selenium	0.29	0.25	24571	EPA 6010A	11/30/95
Silver	ND	0.50	24571	EPA 6010A	11/30/95
Thallium	ND	0.25	24571	EPA 6010A	11/30/95
Vanadium	25	0.50	24571	EPA 6010A	11/30/95
Zinc	34	0.99	24571	EPA 6010A	11/30/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: S-EW-2
LAB ID: 123539-003
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 11/29/95
DATE RECEIVED: 11/29/95
DATE REPORTED: 11/30/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24571	EPA 6010A	11/30/95
Arsenic	4.1	0.24	24571	EPA 6010A	11/30/95
Barium	230	0.48	24571	EPA 6010A	11/30/95
Beryllium	0.78	0.096	24571	EPA 6010A	11/30/95
Cadmium	1.0	0.048	24571	EPA 6010A	11/30/95
Chromium (total)	40	0.48	24571	EPA 6010A	11/30/95
Cobalt	11	0.96	24571	EPA 6010A	11/30/95
Copper	18	0.48	24571	EPA 6010A	11/30/95
Lead	7.6	0.14	24571	EPA 6010A	11/30/95
Mercury	ND	0.10	24579	EPA 7471	11/30/95
Molybdenum	ND	0.96	24571	EPA 6010A	11/30/95
Nickel	51	0.96	24571	EPA 6010A	11/30/95
Selenium	0.47	0.24	24571	EPA 6010A	11/30/95
Silver	ND	0.48	24571	EPA 6010A	11/30/95
Thallium	ND	0.24	24571	EPA 6010A	11/30/95
Vanadium	29	0.48	24571	EPA 6010A	11/30/95
Zinc	38	0.96	24571	EPA 6010A	11/30/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: S-SW-1
 LAB ID: 123539-004
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 11/29/95
 DATE RECEIVED: 11/29/95
 DATE REPORTED: 11/30/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24571	EPA 6010A	11/30/95
Arsenic	4.0	0.25	24571	EPA 6010A	11/30/95
Barium	170	0.50	24571	EPA 6010A	11/30/95
Beryllium	0.69	0.10	24571	EPA 6010A	11/30/95
Cadmium	0.79	0.050	24571	EPA 6010A	11/30/95
Chromium (total)	33	0.50	24571	EPA 6010A	11/30/95
Cobalt	9.9	1.0	24571	EPA 6010A	11/30/95
Copper	16	0.50	24571	EPA 6010A	11/30/95
Lead	7.0	0.15	24571	EPA 6010A	11/30/95
Mercury	ND	0.10	24579	EPA 7471	11/30/95
Molybdenum	ND	1.0	24571	EPA 6010A	11/30/95
Nickel	40	1.0	24571	EPA 6010A	11/30/95
Selenium	0.31	0.25	24571	EPA 6010A	11/30/95
Silver	ND	0.50	24571	EPA 6010A	11/30/95
Thallium	ND	0.25	24571	EPA 6010A	11/30/95
Vanadium	23	0.50	24571	EPA 6010A	11/30/95
Zinc	35	1.0	24571	EPA 6010A	11/30/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: S-WW-1
LAB ID: 123539-005
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 11/29/95
DATE RECEIVED: 11/29/95
DATE REPORTED: 11/30/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24571	EPA 6010A	11/30/95
Arsenic	4.8	0.24	24571	EPA 6010A	11/30/95
Barium	160	0.48	24571	EPA 6010A	11/30/95
Beryllium	0.64	0.096	24571	EPA 6010A	11/30/95
Cadmium	1.0	0.048	24571	EPA 6010A	11/30/95
Chromium (total)	37	0.48	24571	EPA 6010A	11/30/95
Cobalt	9.0	0.96	24571	EPA 6010A	11/30/95
Copper	17	0.48	24571	EPA 6010A	11/30/95
Lead	6.3	0.14	24571	EPA 6010A	11/30/95
Mercury	ND	0.10	24579	EPA 7471	11/30/95
Molybdenum	ND	0.96	24571	EPA 6010A	11/30/95
Nickel	43	0.96	24571	EPA 6010A	11/30/95
Selenium	0.35	0.24	24571	EPA 6010A	11/30/95
Silver	ND	0.48	24571	EPA 6010A	11/30/95
Thallium	ND	0.24	24571	EPA 6010A	11/30/95
Vanadium	31	0.48	24571	EPA 6010A	11/30/95
Zinc	41	0.96	24571	EPA 6010A	11/30/95

ND = Not detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 123539

DATE REPORTED: 11/30/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24571	EPA 6010A	11/30/95
Arsenic	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Barium	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Beryllium	ND	0.1	mg/Kg	24571	EPA 6010A	11/30/95
Cadmium	ND	0.05	mg/Kg	24571	EPA 6010A	11/30/95
Chromium (total)	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Cobalt	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Copper	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Lead	ND	0.15	mg/Kg	24571	EPA 6010A	11/30/95
Mercury	ND	0.1	mg/Kg	24579	EPA 7471	11/30/95
Molybdenum	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Nickel	ND	1	mg/Kg	24571	EPA 6010A	11/30/95
Selenium	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Silver	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Thallium	ND	0.25	mg/Kg	24571	EPA 6010A	11/30/95
Vanadium	ND	0.5	mg/Kg	24571	EPA 6010A	11/30/95
Zinc	ND	1	mg/Kg	24571	EPA 6010A	11/30/95

ND = Not Detected at or above reporting limit



Curtis & Tompkins, Ltd.

CLIENT: Secor
 JOB NUMBER: 123539

DATE REPORTED: 11/30/95

BATCH QC REPORT
 BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	518	533	ug/L	104	107	106	3	24571	EPA 6010A	11/30/95
Arsenic	2000	1760	1830	ug/L	88	92	90	4	24571	EPA 6010A	11/30/95
Barium	2000	1850	1950	ug/L	93	98	96	5	24571	EPA 6010A	11/30/95
Beryllium	50	49	51.6	ug/L	98	103	101	5	24571	EPA 6010A	11/30/95
Cadmium	50	47.7	50.2	ug/L	95	100	98	5	24571	EPA 6010A	11/30/95
Chromium (total)	200	187	196	ug/L	94	98	96	5	24571	EPA 6010A	11/30/95
Cobalt	500	464	485	ug/L	93	97	95	4	24571	EPA 6010A	11/30/95
Copper	250	234	245	ug/L	94	98	96	5	24571	EPA 6010A	11/30/95
Lead	2000	459	480	ug/L	92	96	94	5	24571	EPA 6010A	11/30/95
Mercury	5	4.923	4.774	ug/L	99	96	98	3	24579	EPA 7470	11/30/95
Molybdenum	400	359	376	ug/L	90	94	92	5	24571	EPA 6010A	11/30/95
Nickel	500	464	486	ug/L	93	97	95	5	24571	EPA 6010A	11/30/95
Selenium	2000	1680	1740	ug/L	84	87	86	4	24571	EPA 6010A	11/30/95
Silver	100	95.5	99.9	ug/L	96	100	98	5	24571	EPA 6010A	11/30/95
Thallium	2000	1860	1950	ug/L	93	98	96	5	24571	EPA 6010A	11/30/95
Vanadium	500	464	486	ug/L	93	97	95	5	24571	EPA 6010A	11/30/95
Zinc	500	423	442	ug/L	85	88	87	4	24571	EPA 6010A	11/30/95



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-NW-1
Lab ID: 123539-001
Matrix: Soil
Batch#: 24563
Units: ug/Kg
Diln Fac: 1

Sampled: 11/29/95
Received: 11/29/95
Extracted: 11/29/95
Analyzed: 11/30/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl) ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-NW-1	Sampled: 11/29/95
Lab ID: 123539-001	Received: 11/29/95
Matrix: Soil	Extracted: 11/29/95
Batch#: 24563	Analyzed: 11/30/95
Units: ug/Kg	
Diln Fac: 1	

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	77	25-121
Phenol-d5	76	24-113
2,4,6-Tribromophenol	69	19-122
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	69	30-115
Terphenyl-d14	75	18-137



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-EW-1
Lab ID: 123539-002
Matrix: Soil
Batch#: 24563
Units: ug/Kg
Diln Fac: 1

Sampled: 11/29/95
Received: 11/29/95
Extracted: 11/29/95
Analyzed: 11/30/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS		
Field ID: S-EW-1	Sampled:	11/29/95
Lab ID: 123539-002	Received:	11/29/95
Matrix: Soil	Extracted:	11/29/95
Batch#: 24563	Analyzed:	11/30/95
Units: ug/Kg		
Diln Fac: 1		
Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	81	25-121
Phenol-d5	82	24-113
2,4,6-Tribromophenol	73	19-122
Nitrobenzene-d5	77	23-120
2-Fluorobiphenyl	76	30-115
Terphenyl-d14	79	18-137



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-EW-2
Lab ID: 123539-003
Matrix: Soil
Batch#: 24563
Units: ug/Kg
Diln Fac: 1

Sampled: 11/29/95
Received: 11/29/95
Extracted: 11/29/95
Analyzed: 11/30/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-EW-2
 Lab ID: 123539-003
 Matrix: Soil
 Batch#: 24563
 Units: ug/Kg
 Diln Fac: 1

Sampled: 11/29/95
 Received: 11/29/95
 Extracted: 11/29/95
 Analyzed: 11/30/95

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	80	25-121
Phenol-d5	79	24-113
2,4,6-Tribromophenol	68	19-122
Nitrobenzene-d5	79	23-120
2-Fluorobiphenyl	75	30-115
Terphenyl-d14	79	18-137



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-SW-1
Lab ID: 123539-004
Matrix: Soil
Batch#: 24563
Units: ug/Kg
Diln Fac: 1

Sampled: 11/29/95
Received: 11/29/95
Extracted: 11/29/95
Analyzed: 11/30/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-SW-1	Sampled: 11/29/95
Lab ID: 123539-004	Received: 11/29/95
Matrix: Soil	Extracted: 11/29/95
Batch#: 24563	Analyzed: 11/30/95
Units: ug/Kg	
Diln Fac: 1	

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	1700
4-Nitroaniline	ND	330
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	79	25-121
Phenol-d5	77	24-113
2,4,6-Tribromophenol	59	19-122
Nitrobenzene-d5	73	23-120
2-Fluorobiphenyl	70	30-115
Terphenyl-d14	70	18-137



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-WW-1
Lab ID: 123539-005
Matrix: Soil
Batch#: 24563
Units: ug/Kg
Diln Fac: 1

Sampled: 11/29/95
Received: 11/29/95
Extracted: 11/29/95
Analyzed: 11/30/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-WW-1
Lab ID: 123539-005
Matrix: Soil
Batch#: 24563
Units: ug/Kg
Diln Fac: 1

Sampled: 11/29/95
Received: 11/29/95
Extracted: 11/29/95
Analyzed: 11/30/95

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	79	25-121
Phenol-d5	80	24-113
2,4,6-Tribromophenol	78	19-122
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	71	30-115
Terphenyl-d14	74	18-137



Lab #: 123539

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics		
Client: Secor	Analysis Method: EPA 8270	
Project#: 70074-001-02	Prep Method: EPA 3550	
Location: Bohannon Development		
METHOD BLANK		
Matrix: Soil	Prep Date: 11/29/95	
Batch#: 24563	Analysis Date: 11/30/95	
Units: ug/Kg		
Diln Fac: 1		

MB Lab ID: QC09728

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700



Lab #: 123539

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics		
Client: Secor	Analysis Method: EPA 8270	
Project#: 70074-001-02	Prep Method: EPA 3550	
Location: Bohannon Development		
METHOD BLANK		
Matrix: Soil	Prep Date: 11/29/95	
Batch#: 24563	Analysis Date: 11/30/95	
Units: ug/Kg		
Diln Fac: 1		

MB Lab ID: QC09728

Analyte	Result	Reporting Limit
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Rec	Recovery Limits
2-Fluorophenol	75	25-121
Phenol-d5	77	24-113
2,4,6-Tribromophenol	60	19-122
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	68	30-115
Terphenyl-d14	64	18-137



Lab #: 123539

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Soil
 Batch#: 24563
 Units: ug/Kg
 Diln Fac: 1

Prep Date: 11/29/95
 Analysis Date: 11/30/95

BS Lab ID: QC09729

Analyte	Spike Added	BS	%Rec	#	Limits
Phenol	3333	2369	71		26-90
2-Chlorophenol	3333	2352	71		25-102
4-Chloro-3-methylphenol	3333	2530	76		26-103
4-Nitrophenol	3333	1874	56		11-114
Pentachlorophenol	3333	1667	10	*	17-109
1,4-Dichlorobenzene	1667	1180	71		28-104
N-Nitroso-di-n-propylamine	1667	1105	66		41-126
1,2,4-Trichlorobenzene	1667	1175	70		38-107
Acenaphthene	1667	1092	66		31-137
2,4-Dinitrotoluene	1667	1210	73		28-89
Pyrene	1667	1071	64		35-142
Surrogate	%Rec	Limits			
2-Fluorophenol	83	25-121			
Phenol-d5	81	24-113			
2,4,6-Tribromophenol	61	19-122			
Nitrobenzene-d5	81	23-120			
2-Fluorobiphenyl	72	30-115			
Terphenyl-d14	76	18-137			

BSD Lab ID: QC09730

Analyte	Spike Added	BSD	%Rec	#	Limits	RPD #	Limit
Phenol	3333	2497	75		26-90	5	<35
2-Chlorophenol	3333	2412	72		25-102	1	<50
4-Chloro-3-methylphenol	3333	2699	81		26-103	6	<33
4-Nitrophenol	3333	2458	74		11-114	28	<50
Pentachlorophenol	3333	1667	21		17-109	71	<47
1,4-Dichlorobenzene	1667	1182	71		28-104	0	<27
N-Nitroso-di-n-propylamine	1667	1133	68		41-126	3	<38
1,2,4-Trichlorobenzene	1667	1142	69		38-107	1	<23
Acenaphthene	1667	1169	70		31-137	6	<19
2,4-Dinitrotoluene	1667	1295	78		28-89	7	<47
Pyrene	1667	1163	70		35-142	9	<36
Surrogate	%Rec	Limits					
2-Fluorophenol	82	25-121					
Phenol-d5	83	24-113					
2,4,6-Tribromophenol	78	19-122					
Nitrobenzene-d5	79	23-120					
2-Fluorobiphenyl	77	30-115					
Terphenyl-d14	80	18-137					


Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 11 outside limits

Spike Recovery: 1 out of 22 outside limits

LABORATORY NUMBER: 123539
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

 Curtis & Tompkins, Ltd
DATE ANALYZED: 11/29/95
DATE RECEIVED: 11/29/95
DATE EXTRACTED: 11/30/95
DATE ANALYZED: 11/30/95
DATE REPORTED: 11/30/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123539-001	S-NW-1	ND	25
123539-002	S-EW-1	ND	25
123539-003	S-EW-2	ND	25
123539-004	S-SW-1	ND	25
123539-005	S-WW-1	ND	25
123539-METHOD	BLANK	ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

=====
RPD, % 2
RECOVERY, % 95
=====

123539

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: 1390 Willow Pass Rd., Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Bohannon Development
 Location: 575 Paseo Grande
San Lorenzo, CA

Project # 70074-001-02 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis & Thompson
 Turnaround Time 24 Hr. Standard

Analysis Request

Sampler's Name Charles Melancon
 Sampler's Signature [Signature]

Sample ID	Date	Time	Matrix	HClD	TPH ₉ /BTEX/WTPH-G 8015 (modified)/8020	TPH ₄ /WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
1 S-NW-1	11-29-95		Soil	X	X						X					CAM 17 Hydrocarbon Scan X-X	
2 S-EW-1																	
3 S-EW-2																	
4 S-SW-1																	
5 S-WW-1																	

Special Instructions/Comments:
Hydrocarbon Scan Includes:
TPH, Mineral Spirits, Kerosene,
Motor oil, TPH-g, TRPH

Relinquished by: _____
 Sign [Signature]
 Print Charles Melancon
 Company SECOR
 Time 15:40 Date 11-29-95

Received by: _____
 Sign [Signature]
 Print JOSE DELGADO
 Company C&T
 Time 15:40 Date 11/29/95

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd in good condition/cold: [Initials]
 Conforms to record: _____
 Client: _____
 Client Contact: _____
 Client Phone: _____



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 29-DEC-95
Lab Job Number: 123552
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by: Teresa K. Morris

Reviewed by: [Signature]

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TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123552-001	S-WW-2	24603	11/30/95	11/30/95	11/30/95	
123552-002	S-SW-2	24603	11/30/95	12/01/95	12/01/95	
123552-003	S-EW-3	24603	11/30/95	12/01/95	12/01/95	
123552-004	S-NW-2	24603	11/30/95	12/01/95	12/01/95	

Analyte	Units	123552-001	123552-002	123552-003	123552-004
Diln Fac:		1	1	1	1
Gasoline	mg/Kg	7 Y	<1	<1	<1
Mineral Spirits	mg/Kg	15 Y	<1	<1	<1
Surrogate					
Trifluorotoluene	%REC	99	97	97	98
Bromobenzene	%REC	102	91	90	94

Y: Sample exhibits fuel pattern which does not resemble standard

FileName : G:\GC04\334K024.raw

Date : 11/30/95 11:56 PM

Page 1 of 1

Start Time : 0.00 min

End Time : 17.00 min

Low Point : 40.42 mV

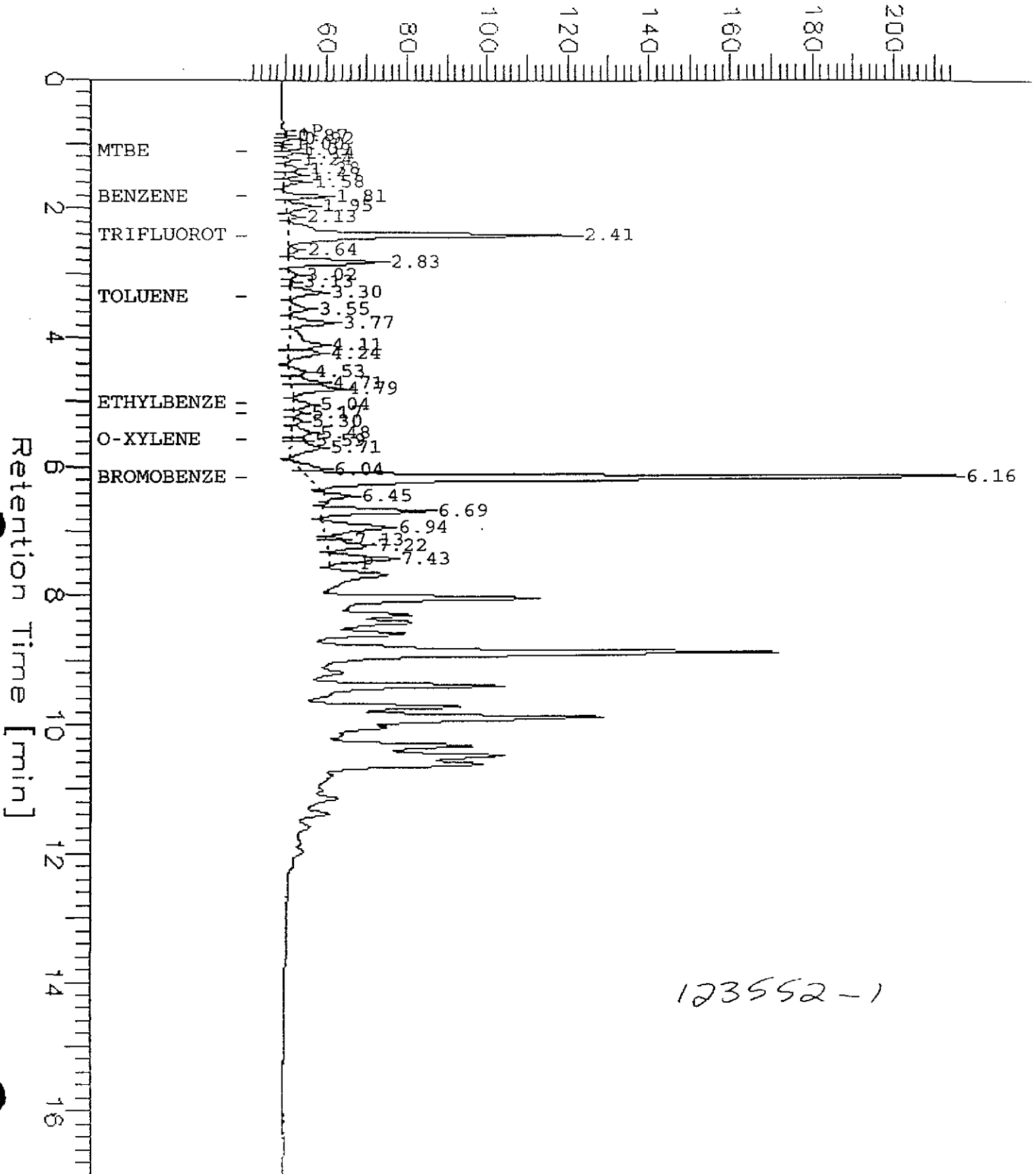
High Point : 215.42 mV

Scale Factor: -1

Plot Offset: 40 mV

Plot Scale: 175 mV

Response [mV]





Lab #: 123552

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 11/30/95
Batch#: 24603	Analysis Date: 11/30/95
Units: mg/Kg	
Diln Fac: 1	

MB Lab ID: QC09883

Analyte	Result	
Gasoline	<1.0	✓
Mineral Spirits	<2.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	96	52-127
Bromobenzene	85	45-140



Lab #: 123552

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 11/30/95
Batch#: 24603	Analysis Date: 11/30/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC09881

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	9.2	10	92	80-120 ✓
Surrogate	%Rec	Limits		
Trifluorotoluene	103	52-127		
Bromobenzene	83	45-140 ✓		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: BTXE
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123552-001	S-WW-2	24603	11/30/95	11/30/95	11/30/95	
123552-002	S-SW-2	24603	11/30/95	12/01/95	12/01/95	
123552-003	S-EW-3	24603	11/30/95	12/01/95	12/01/95	
123552-004	S-NW-2	24603	11/30/95	12/01/95	12/01/95	

Analyte	Units	123552-001	123552-002	123552-003	123552-004
Diln Fac:		1	1	1	1
Benzene	ug/Kg	<5	<5	<5	<5
Toluene	ug/Kg	<5	<5	<5	<5
Ethylbenzene	ug/Kg	<5	<5	<5	<5
m,p-Xylenes	ug/Kg	<5	<5	<5	<5
o-Xylene	ug/Kg	<5	<5	<5	<5
Surrogate					
Trifluorotoluene	%REC	123 *	99	99	101
Bromobenzene	%REC	96	94	93	97

* Values outside of QC limits



Lab #: 123552

BATCH QC REPORT

BTXE			
Client: Secor	Analysis Method: EPA 8020		
Project#: 70074-001-02	Prep Method: EPA 5030		
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil	Prep Date: 11/30/95		
Batch#: 24603	Analysis Date: 11/30/95		
Units: ug/Kg			
Diln Fac: 1			

LCS Lab ID: QC09882

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	99.9	100	100	80-120
Toluene	100.3	100	100	80-120
Ethylbenzene	101.2	100	101	80-120
m,p-Xylenes	195.2	200	98	80-120
o-Xylene	105	100	105	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	97	43-114		
Bromobenzene	85	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123552

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 11/21/95
Lab ID: 123501-001	Received Date: 11/22/95
Matrix: Soil	Prep Date: 12/01/95
Batch#: 24603	Analysis Date: 12/01/95
Units: ug/Kg	
Diln Fac: 1	

MS Lab ID: QC09884

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Benzene	100	<5.000	115	115	75-125
Toluene	100	<5.000	112.2	112	75-125
Ethylbenzene	100	<5.000	102.5	103	75-125
m,p-Xylenes	200	<5.000	211.7	106	75-125
o-Xylene	100	<5.000	111.4	111	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	104	43-114			
Bromobenzene	95	47-112			

MSD Lab ID: QC09885

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Benzene	100	113.7	114	75-125	1	<20
Toluene	100	110.4	110	75-125	2	<20
Ethylbenzene	100	100.9	101	75-125	2	<20
m,p-Xylenes	200	208.1	104	75-125	2	<20
o-Xylene	100	108.7	109	75-125	3	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	103	43-114				
Bromobenzene	91	47-112				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits



SAMPLE ID: S-WW-2
LAB ID: 123552-001
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 11/30/95
DATE RECEIVED: 11/30/95
DATE REPORTED: 01/02/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24589	EPA 6010A	12/01/95
Arsenic	4.4	0.25	24589	EPA 6010A	12/01/95
Barium	200	0.50	24589	EPA 6010A	12/01/95
Beryllium	0.90	0.10	24589	EPA 6010A	12/01/95
Cadmium	0.92	0.050	24589	EPA 6010A	12/01/95
Chromium (total)	54	0.50	24589	EPA 6010A	12/01/95
Cobalt	9.9	1.0	24589	EPA 6010A	12/01/95
Copper	20	0.50	24589	EPA 6010A	12/01/95
Lead	7.7	0.15	24589	EPA 6010A	12/01/95
Mercury	ND	0.10	24605	EPA 7471	12/01/95
Molybdenum	ND	1.0	24589	EPA 6010A	12/01/95
Nickel	48	1.0	24589	EPA 6010A	12/01/95
Selenium	1.1	0.25	24589	EPA 6010A	12/01/95
Silver	ND	0.50	24589	EPA 6010A	12/01/95
Thallium	ND	0.25	24589	EPA 6010A	12/01/95
Vanadium	41	0.50	24589	EPA 6010A	12/01/95
Zinc	42	1.0	24589	EPA 6010A	12/01/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: S-SW-2
 LAB ID: 123552-002
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 11/30/95
 DATE RECEIVED: 11/30/95
 DATE REPORTED: 01/02/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24589	EPA 6010A	12/01/95
Arsenic	3.8	0.25	24589	EPA 6010A	12/01/95
Barium	180	0.49	24589	EPA 6010A	12/01/95
Beryllium	0.75	0.099	24589	EPA 6010A	12/01/95
Cadmium	0.78	0.049	24589	EPA 6010A	12/01/95
Chromium (total)	44	0.49	24589	EPA 6010A	12/01/95
Cobalt	8.6	0.99	24589	EPA 6010A	12/01/95
Copper	17	0.49	24589	EPA 6010A	12/01/95
Lead	6.6	0.15	24589	EPA 6010A	12/01/95
Mercury	ND	0.10	24605	EPA 7471	12/01/95
Molybdenum	ND	0.99	24589	EPA 6010A	12/01/95
Nickel	40	0.99	24589	EPA 6010A	12/01/95
Selenium	0.94	0.25	24589	EPA 6010A	12/01/95
Silver	ND	0.49	24589	EPA 6010A	12/01/95
Thallium	ND	0.25	24589	EPA 6010A	12/01/95
Vanadium	38	0.49	24589	EPA 6010A	12/01/95
Zinc	36	0.99	24589	EPA 6010A	12/01/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: S-EW-3
 LAB ID: 123552-003
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 11/30/95
 DATE RECEIVED: 11/30/95
 DATE REPORTED: 01/02/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24589	EPA 6010A	12/01/95
Arsenic	3.7	0.25	24589	EPA 6010A	12/01/95
Barium	150	0.49	24589	EPA 6010A	12/01/95
Beryllium	0.74	0.098	24589	EPA 6010A	12/01/95
Cadmium	0.75	0.049	24589	EPA 6010A	12/01/95
Chromium (total)	43	0.49	24589	EPA 6010A	12/01/95
Cobalt	8.6	0.98	24589	EPA 6010A	12/01/95
Copper	17	0.49	24589	EPA 6010A	12/01/95
Lead	6.9	0.15	24589	EPA 6010A	12/01/95
Mercury	ND	0.10	24605	EPA 7471	12/01/95
Molybdenum	ND	0.98	24589	EPA 6010A	12/01/95
Nickel	41	0.98	24589	EPA 6010A	12/01/95
Selenium	0.81	0.25	24589	EPA 6010A	12/01/95
Silver	ND	0.49	24589	EPA 6010A	12/01/95
Thallium	ND	0.25	24589	EPA 6010A	12/01/95
Vanadium	33	0.49	24589	EPA 6010A	12/01/95
Zinc	36	0.98	24589	EPA 6010A	12/01/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: S-NW-2
LAB ID: 123552-004
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 11/30/95
DATE RECEIVED: 11/30/95
DATE REPORTED: 01/02/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24589	EPA 6010A	12/01/95
Arsenic	4.1	0.25	24589	EPA 6010A	12/01/95
Barium	140	0.50	24589	EPA 6010A	12/01/95
Beryllium	0.65	0.10	24589	EPA 6010A	12/01/95
Cadmium	0.65	0.050	24589	EPA 6010A	12/01/95
Chromium (total)	36	0.50	24589	EPA 6010A	12/01/95
Cobalt	8.1	1.0	24589	EPA 6010A	12/01/95
Copper	14	0.50	24589	EPA 6010A	12/01/95
Lead	6.1	0.15	24589	EPA 6010A	12/01/95
Mercury	ND	0.10	24605	EPA 7471	12/01/95
Molybdenum	ND	1.0	24589	EPA 6010A	12/01/95
Nickel	35	1.0	24589	EPA 6010A	12/01/95
Selenium	0.89	0.25	24589	EPA 6010A	12/01/95
Silver	ND	0.50	24589	EPA 6010A	12/01/95
Thallium	ND	0.25	24589	EPA 6010A	12/01/95
Vanadium	34	0.50	24589	EPA 6010A	12/01/95
Zinc	32	1.0	24589	EPA 6010A	12/01/95

ND = Not detected at or above reporting limit

CLIENT: Secor
JOB NUMBER: 123552

DATE REPORTED: 01/02/96

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24589	EPA 6010A	12/01/95
Arsenic	ND	0.25	mg/Kg	24589	EPA 6010A	12/01/95
Barium	ND	0.5	mg/Kg	24589	EPA 6010A	12/01/95
Beryllium	ND	0.1	mg/Kg	24589	EPA 6010A	12/01/95
Cadmium	ND	0.05	mg/Kg	24589	EPA 6010A	12/01/95
Chromium (total)	ND	0.5	mg/Kg	24589	EPA 6010A	12/01/95
Cobalt	ND	1	mg/Kg	24589	EPA 6010A	12/01/95
Copper	ND	0.5	mg/Kg	24589	EPA 6010A	12/01/95
Lead	ND	0.15	mg/Kg	24589	EPA 6010A	12/01/95
Mercury	ND	0.1	mg/Kg	24605	EPA 7471	12/01/95
Molybdenum	ND	1	mg/Kg	24589	EPA 6010A	12/01/95
Nickel	ND	1	mg/Kg	24589	EPA 6010A	12/01/95
Selenium	ND	0.25	mg/Kg	24589	EPA 6010A	12/01/95
Silver	ND	0.5	mg/Kg	24589	EPA 6010A	12/01/95
Thallium	ND	0.25	mg/Kg	24589	EPA 6010A	12/01/95
Vanadium	ND	0.5	mg/Kg	24589	EPA 6010A	12/01/95
Zinc	ND	1	mg/Kg	24589	EPA 6010A	12/01/95

ND = Not Detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 123552

DATE REPORTED: 01/02/96

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	441	440	ug/L	88	88	88	0	24589	EPA 6010A	12/01/95
Arsenic	2000	1650	1650	ug/L	83	83	83	0	24589	EPA 6010A	12/01/95
Barium	2000	1790	1790	ug/L	90	90	90	0	24589	EPA 6010A	12/01/95
Beryllium	50	46.5	46.4	ug/L	93	93	93	0	24589	EPA 6010A	12/01/95
Cadmium	50	45.7	45.6	ug/L	91	91	91	0	24589	EPA 6010A	12/01/95
Chromium (total)	200	179	179	ug/L	90	90	90	0	24589	EPA 6010A	12/01/95
Cobalt	500	446	444	ug/L	89	89	89	0	24589	EPA 6010A	12/01/95
Copper	250	227	226	ug/L	91	90	91	0	24589	EPA 6010A	12/01/95
Lead	500	438	437	ug/L	88	87	88	0	24589	EPA 6010A	12/01/95
Mercury	5	5.182	4.758	ug/L	104	95	100	9	24605	EPA 7470	12/01/95
Molybdenum	400	345	342	ug/L	86	86	86	1	24589	EPA 6010A	12/01/95
Nickel	500	443	442	ug/L	89	88	89	0	24589	EPA 6010A	12/01/95
Selenium	2000	1540	1540	ug/L	77	77	77	0	24589	EPA 6010A	12/01/95
Silver	100	93	92.7	ug/L	93	93	93	0	24589	EPA 6010A	12/01/95
Thallium	2000	1780	1770	ug/L	89	89	89	1	24589	EPA 6010A	12/01/95
Vanadium	500	445	444	ug/L	89	89	89	0	24589	EPA 6010A	12/01/95
Zinc	500	421	418	ug/L	84	84	84	1	24589	EPA 6010A	12/01/95



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-WW-2
Lab ID: 123552-001
Matrix: Soil
Batch#: 24594
Units: ug/Kg
Diln Fac: 1

Sampled: 11/30/95
Received: 11/30/95
Extracted: 11/30/95
Analyzed: 12/01/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl) ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-WW-2	Sampled: 11/30/95
Lab ID: 123552-001	Received: 11/30/95
Matrix: Soil	Extracted: 11/30/95
Batch#: 24594	Analyzed: 12/01/95
Units: ug/Kg	
Diln Fac: 1	

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	66	25-121
Phenol-d5	64	24-113
2,4,6-Tribromophenol	68	19-122
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	63	30-115
Terphenyl-d14	61	18-137



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-SW-2
Lab ID: 123852-002
Matrix: Soil
Batch#: 24594
Units: ug/Kg
Diln Fac: 1

Sampled: 11/30/95
Received: 11/30/95
Extracted: 11/30/95
Analyzed: 12/01/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-SW-2	Sampled: 11/30/95
Lab ID: 123552-002	Received: 11/30/95
Matrix: Soil	Extracted: 11/30/95
Batch#: 24594	Analyzed: 12/01/95
Units: ug/Kg	
Diln Fac: 1	

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	67	25-121
Phenol-d5	67	24-113
2,4,6-Tribromophenol	71	19-122
Nitrobenzene-d5	73	23-120
2-Fluorobiphenyl	70	30-115
Terphenyl-d14	71	18-137



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bokanmon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-EW-3
Lab ID: 123552-003
Matrix: Soil
Batch#: 24594
Units: ug/Kg
Diln Fac: 1

Sampled: 11/30/95
Received: 11/30/95
Extracted: 11/30/95
Analyzed: 12/01/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-EW-3	Sampled: 11/30/95
Lab ID: 123552-003	Received: 11/30/95
Matrix: Soil	Extracted: 11/30/95
Batch#: 24594	Analyzed: 12/01/95
Units: ug/Kg	
Diln Fac: 1	

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	65	25-121
Phenol-d5	67	24-113
2,4,6-Tribromophenol	69	19-122
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	67	30-115
Terphenyl-d14	70	18-137



Semivolatiles Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-NW-2
Lab ID: 123552-004
Matrix: Soil
Batch#: 24594
Units: ug/Kg
Diln Fac: 1

Sampled: 11/30/95
Received: 11/30/95
Extracted: 11/30/95
Analyzed: 12/01/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-NW-2	Sampled: 11/30/95
Lab ID: 123552-004	Received: 11/30/95
Matrix: Soil	Extracted: 11/30/95
Batch#: 24594	Analyzed: 12/01/95
Units: ug/Kg	
Diln Fac: 1	

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	71	25-121
Phenol-d5	74	24-113
2,4,6-Tribromophenol	71	19-122
Nitrobenzene-d5	78	23-120
2-Fluorobiphenyl	72	30-115
Terphenyl-d14	71	18-137



Lab #: 123552

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

METHOD BLANK

Matrix: Soil
 Batch#: 24594
 Units: ug/Kg
 Diln Fac: 1

Prep Date: 11/30/95
 Analysis Date: 12/01/95

MB Lab ID: QC09854

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700



Lab #: 123552

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

METHOD BLANK

Matrix: Soil
 Batch#: 24594
 Units: ug/Kg
 Diln Fac: 1

Prep Date: 11/30/95
 Analysis Date: 12/01/95

MB Lab ID: QC09854

Analyte	Result	Reporting Limit
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Rec	Recovery Limits
2-Fluorophenol	72	25-121
Phenol-d5	71	24-113
2,4,6-Tribromophenol	71	19-122
Nitrobenzene-d5	76	23-120
2-Fluorobiphenyl	69	30-115
Terphenyl-d14	69	18-137



Lab #: 123552

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

LABORATORY CONTROL SAMPLE

Matrix: Soil
 Batch#: 24594
 Units: ug/Kg
 Diln Fac: 1

Prep Date: 11/30/95
 Analysis Date: 12/01/95

LCS Lab ID: QC09855

Analyte	Result	Spike Added	%Rec #	Limits
Phenol	2204	3300	66	26-90
2-Chlorophenol	2190	3300	66	25-102
4-Chloro-3-methylphenol	2433	3300	73	26-103
4-Nitrophenol	2707	3300	81	11-114
Pentachlorophenol	2052	3300	62	17-109
1,4-Dichlorobenzene	1165	1667	70	28-104
N-Nitroso-di-n-propylamine	1189	1667	71	41-126
1,2,4-Trichlorobenzene	1173	1667	70	38-107
Acenaphthene	1129	1667	68	31-137
2,4-Dinitrotoluene	1256	1667	75	28-89
Pyrene	1092	1667	66	35-142
Surrogate	%Rec	Limits		
2-Fluorophenol	73	25-121		
Phenol-d5	72	24-113		
2,4,6-Tribromophenol	78	19-122		
Nitrobenzene-d5	79	23-120		
2-Fluorobiphenyl	73	30-115		
Terphenyl-d14	71	18-137		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits



Lab #: 123552

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: S-NW-2
 Lab ID: 123552-004
 Matrix: Soil
 Batch#: 24594
 Units: ug/Kg
 Diln Fac: 1

Sample Date: 11/30/95
 Received Date: 11/30/95
 Prep Date: 11/30/95
 Analysis Date: 12/01/95

MS Lab ID: QC09856

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Phenol	3300	<330.0	2222	67	26-90
2-Chlorophenol	3300	<330.0	2200	66	25-102
4-Chloro-3-methylphenol	3300	<330.0	2510	75	26-103
4-Nitrophenol	3300	<1700	2739	82	11-114
Pentachlorophenol	3300	<1700	2176	65	17-109
1,4-Dichlorobenzene	1667	<330.0	1103	66	28-104
N-Nitroso-di-n-propylamine	1667	<330.0	1216	73	41-126
1,2,4-Trichlorobenzene	1667	<330.0	1134	68	38-107
Acenaphthene	1667	<330.0	1157	69	31-137
2,4-Dinitrotoluene	1667	<330.0	1282	77	28-89
Pyrene	1667	<330.0	1112	67	35-142
Surrogate	%Rec	Limits			
2-Fluorophenol	72	25-121			
Phenol-d5	72	24-113			
2,4,6-Tribromophenol	80	19-122			
Nitrobenzene-d5	79	23-120			
2-Fluorobiphenyl	73	30-115			
Terphenyl-d14	74	18-137			

MSD Lab ID: QC09857

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Phenol	3300	2189	66	26-90	2	<35
2-Chlorophenol	3300	2164	65	25-102	2	<50
4-Chloro-3-methylphenol	3300	2359	71	26-103	5	<33
4-Nitrophenol	3300	2620	79	11-114	4	<50
Pentachlorophenol	3300	2125	64	17-109	2	<47
1,4-Dichlorobenzene	1667	1086	65	28-104	2	<27
N-Nitroso-di-n-propylamine	1667	1158	69	41-126	6	<38
1,2,4-Trichlorobenzene	1667	1109	67	38-107	1	<23
Acenaphthene	1667	1103	66	31-137	4	<19
2,4-Dinitrotoluene	1667	1195	72	28-89	7	<47
Pyrene	1667	1108	66	35-142	2	<36
Surrogate	%Rec	Limits				
2-Fluorophenol	72	25-121				
Phenol-d5	72	24-113				
2,4,6-Tribromophenol	79	19-122				
Nitrobenzene-d5	77	23-120				
2-Fluorobiphenyl	72	30-115				
Terphenyl-d14	72	18-137				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits



TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

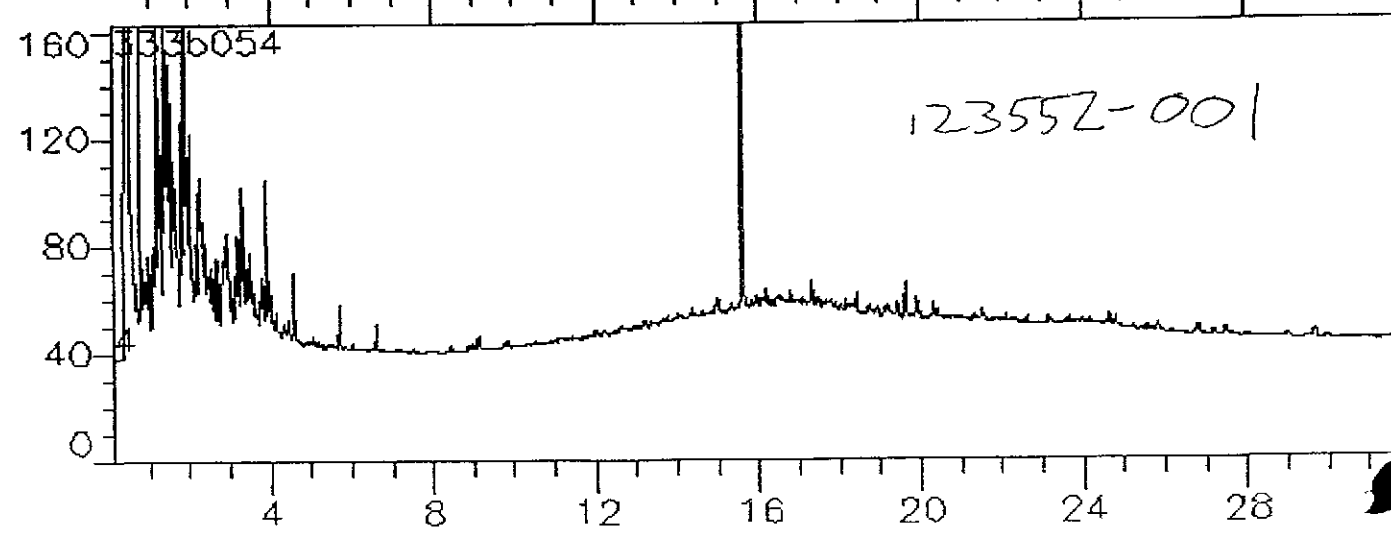
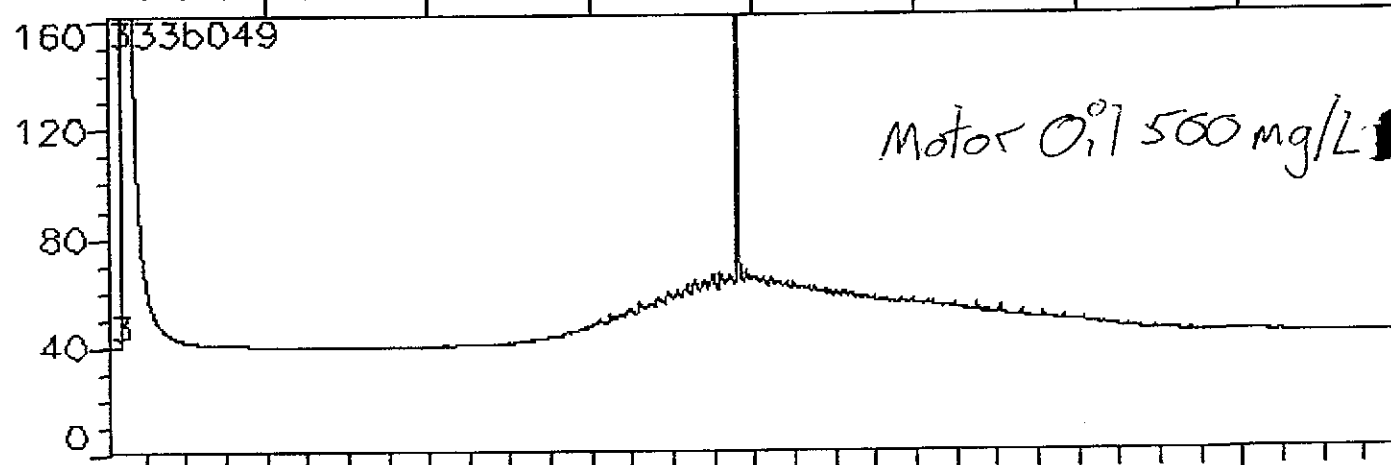
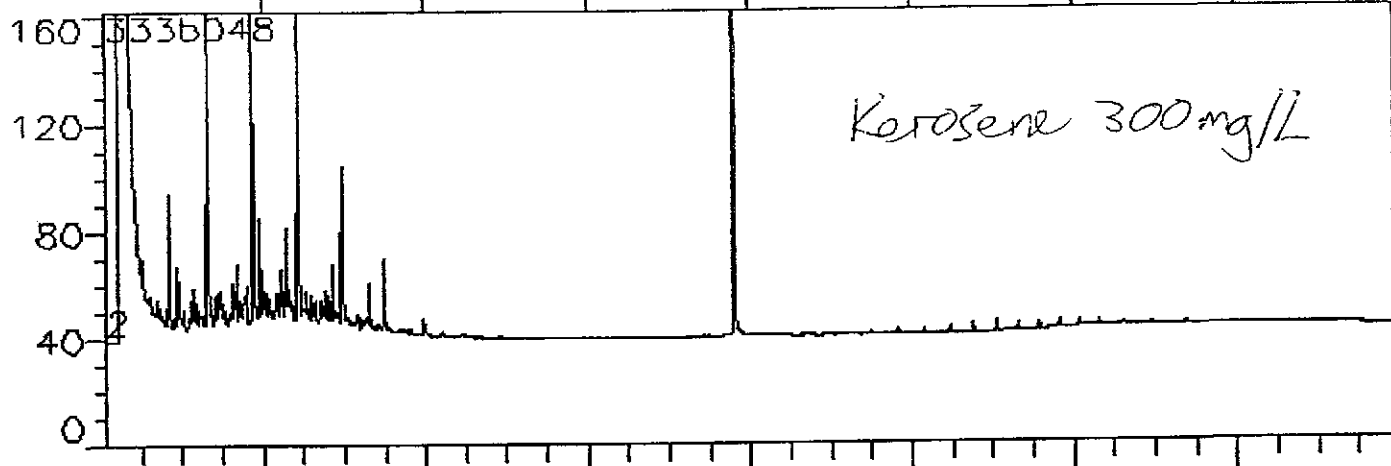
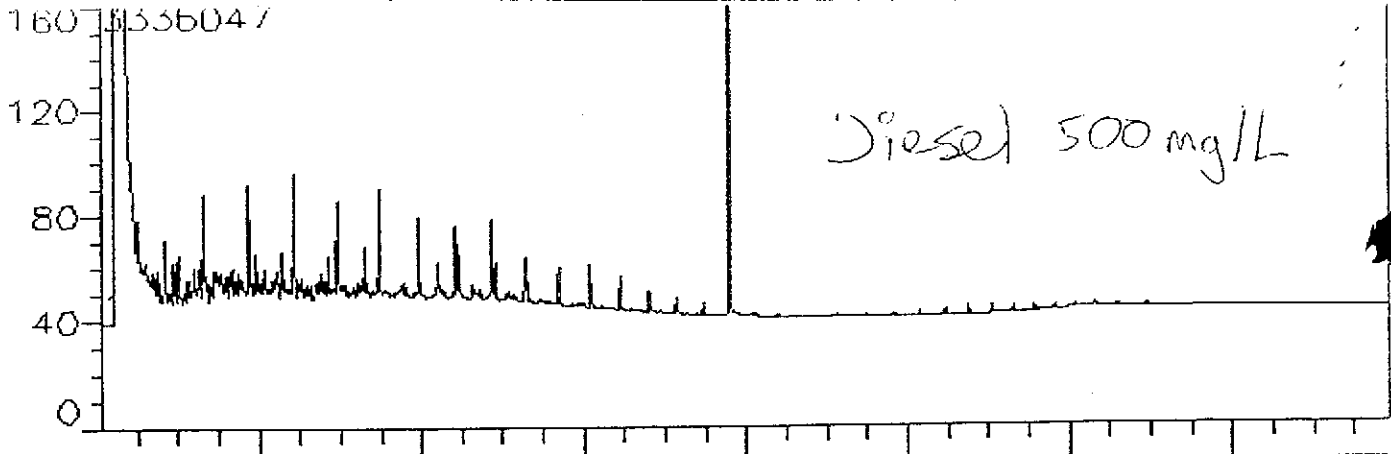
Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123552-001	S-WW-2	24592	11/30/95	11/30/95	12/01/95	
123552-002	S-SW-2	24592	11/30/95	11/30/95	12/01/95	
123552-003	S-EW-3	24592	11/30/95	11/30/95	12/01/95	
123552-004	S-NW-2	24592	11/30/95	11/30/95	12/01/95	

Analyte	Units	123552-001	123552-002	123552-003	123552-004
Diln Fac:		1	1	1	1
Kerosene Range	mg/Kg	34 YL	<1	<1	<1
Diesel Range	mg/Kg	33 YL	<1	<1	<1
Motor Oil Range	mg/Kg	47	<25	<25	<25
Surrogate					
Hexacosane	%REC	101	94	97	102

Y: Sample exhibits fuel pattern which does not resemble standard

L: Lighter hydrocarbons than indicated standard





Lab #: 123552

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons	
Client: Secor Project#: 70074-001-02 Location: Bohannon Development	Analysis Method: CA LUFT (EPA 8015M) Prep Method: SHAKER TABLE
METHOD BLANK	
Matrix: Soil Batch#: 24592 Units: mg/Kg Diln Fac: 1	Prep Date: 11/30/95 Analysis Date: 11/30/95

MB Lab ID: QC09847

Analyte	Result	
Kerosene Range	<1.0	✓
Diesel Range	<1.0	
Motor Oil Range	<25	
Surrogate	%Rec	Recovery Limits
Hexacosane	103	60-140



Lab #: 123552

BATCH QC REPORT

TEH-Tot Ext. Hydrocarbons			
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)		
Project#: 70074-001-02	Prep Method: SHAKER TABLE		
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil	Prep Date: 11/30/95		
Batch#: 24592	Analysis Date: 12/01/95		
Units: mg/Kg			
Diln Fac: 1			

LCS Lab ID: QC09848

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	60.8	51.3	119 ✓	60-140
Surrogate	%Rec	Limits	✓	
Hexacosane	91	60-140	✓	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

123552

Chain-of-Custody Number:

SEACOR Chain-of-Custody Record

Field Office: Concord
 Address: 1390 Willow Pass Rd, Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Bhannon Development
 Location: 575 Paseo Grande
San Lorenzo, CA

Project # 70074-001-02 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis & Thompkins
 Turnaround Time 24 hr / Standard

Analysis Request

Sampler's Name Charles Melanson
 Sampler's Signature Charles Melanson

Sample ID	Date	Time	Matrix	HCID	TPH/BTEX/MTPH-G 8015 (modified)/8020	TPH/MTPH-D 8015 (modified)	TPH 418.1/MTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	CAM 17	Hydrocarbon Scan	Comments/ Instructions	Number of Containers
S-WW-2	11-30-95		Soil	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1
S-SW-2																			1
S-EW-3																			1
S-NW-2																			1

Special Instructions/Comments:
 Hydrocarbon Scan Includes:
 TPH - Mineral Spirits, kerosene,
 Motor Oil, TPH-g, and TRPH

Relinquished by:
 Sign Charles Melanson
 Print Charles Melanson
 Company SEACOR
 Time 15:30 Date 11-30-95

Received by:
 Sign [Signature]
 Print JOE SELIGER
 Company C&T
 Time 15:20 Date 11/30/95

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. good condition/cold: _____
 Conforms to record: _____
 Client: _____
 Client Contact: _____
 Client Phone: _____



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2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 29-DEC-95
Lab Job Number: 123551
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Reviewed by:

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 123551
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

DATE SAMPLED: 11/30/95
DATE RECEIVED: 11/30/95
DATE EXTRACTED: 12/01/95
DATE ANALYZED: 12/01/95
DATE REPORTED: 12/01/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123551-001	SP-C	200	25
123551-002	SP-D	150	25
123551-003	SP-E	1,100	50
123551-METHOD BLANK		ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	99



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: BTXE
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123551-001	SP-C	24603	11/30/95	12/01/95	12/01/95	
123551-002	SP-D	24603	11/30/95	12/01/95	12/01/95	
123551-003	SP-E	24603	11/30/95	12/01/95	12/01/95	

Analyte	Units	123551-001	123551-002	123551-003
Diln Fac:		1	1	1
Benzene	ug/Kg	<5	<5	<5
Toluene	ug/Kg	<5	<5	<5
Ethylbenzene	ug/Kg	<5	<5	<5
m,p-Xylenes	ug/Kg	<5	11	<5
o-Xylene	ug/Kg	<5	<5	<5
Surrogate				
Trifluorotoluene	%REC	101	109	105
Bromobenzene	%REC	94	105	71



Lab #: 123551

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 11/30/95
Batch#: 24603	Analysis Date: 11/30/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC09883

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	97	43-114
Bromobenzene	85	47-112



Lab #: 123551

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 11/30/95
Batch#: 24603	Analysis Date: 11/30/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC09882

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	99.9	100	100	80-120
Toluene	100.3	100	100	80-120
Ethylbenzene	101.2	100	101	80-120
m,p-Xylenes	195.2	200	98	80-120
o-Xylene	105	100	105	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	97	43-114		
Bromobenzene	85	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

123551

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: 1390 Willow Pass Rd, Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Bohannon Development
 Location: 575 Paseo Grande
San Lorenzo, CA

Project # 70074-001-02 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis & Thompkins
 Turnaround Time 24 hr.

Analysis Request

Sampler's Name Charles Melanson
 Sampler's Signature Charles Melanson

Sample ID	Date	Time	Matrix	HClD	TPH/GTEX/WTPH-G 8015 (modified)/8020	TPH/WTPH-D 8015 (modified)	TPH TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
SP-C	11-30-95		Soil		X	X										Composite into one	4
SP-D	↓		↓		↓	↓										Composite into one	4
SP-E	↓		↓		↓	↓										Composite into one	4

Special Instructions/Comments:
Hold remaining soil
not used in analyses
for additional tests

Relinquished by:
 Sign Charles Melanson
 Print Charles Melanson
 Company SECOR
 Time 15:20 Date 11-30-95

Received by:
 Sign [Signature]
 Print JOSE BELTRON
 Company C&T
 Time 15:20 Date 11/30/95

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____

Relinquished by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Received by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Client: _____
 Client Contact: _____
 Client Phone: _____



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A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 07-DEC-95
Lab Job Number: 123624
Project ID: 70074-001-02
Location: Bohannon Development


Reviewed by: _____

Reviewed by: _____

Tanya K. Morrison

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LABORATORY NUMBER: 123624
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

 Curtis & Tompkins, Ltd.
DATE SAMPLED: 11/30/95
DATE RECEIVED: 11/30/95
DATE REQUESTED: 12/06/95
DATE EXTRACTED: 12/06/95
DATE ANALYZED: 12/06/95
DATE REPORTED: 12/07/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123624-001	S-WW-2	91	25
123624-METHOD	BLANK	ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

=====
RPD, % <1
RECOVERY, % 99
=====



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

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A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 29-DEC-95
Lab Job Number: 123575
Project ID: 70074-001-02
Location: Bohannon

Reviewed by: _____

Teresa K. Morris

Reviewed by: _____

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TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon

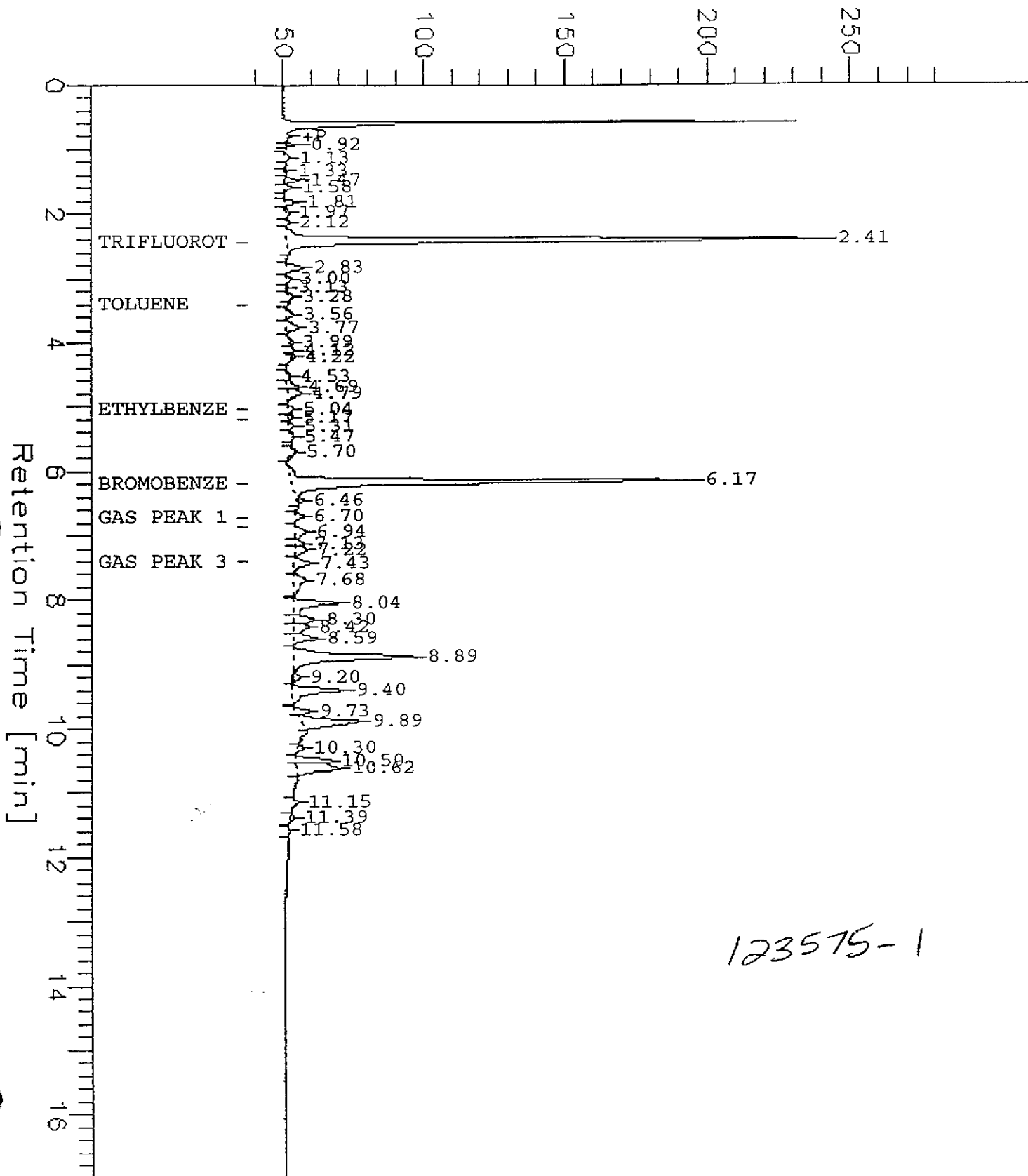
Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123575-001	S-WW-3	24652	12/04/95	12/05/95	12/05/95	

Analyte	Units	123575-001
Diln Fac:		1
Gasoline	mg/Kg	1.1Y
Mineral Spirits	mg/Kg	3.5Y
Surrogate		
Trifluorotoluene	%REC	98
Bromobenzene	%REC	97

Y: Sample exhibits fuel pattern which does not resemble standard

Response [mV]



123575-1



Lab #: 123575

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/04/95
Batch#: 24652	Analysis Date: 12/04/95
Units: mg/Kg	
Diln Fac: 1	

MB Lab ID: QC10051

Analyte	Result		Recovery Limits
Gasoline	<1.0	✓	
Mineral Spirits	<2.0	✓	
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	95	✓	52-127
Bromobenzene	86	✓	45-140

Lab #: 123575

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/04/95
Batch#: 24652	Analysis Date: 12/04/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10049

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10	10	100	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	105	52-127		
Bromobenzene	95	45-140		

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 Spike Recovery: 0 out of 1 outside limits



Lab #: 123575

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 11/21/95
Lab ID: 123483-038	Received Date: 11/22/95
Matrix: Soil	Prep Date: 12/04/95
Batch#: 24652	Analysis Date: 12/04/95
Units: mg/Kg dry weight	Moisture: 9%
Diln Fac: 1	

MS Lab ID: QC10052

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	10.99	<1.099	9.67	88 ✓	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	106	52-127			
Bromobenzene	104	45-140			

MSD Lab ID: QC10053

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	10.99	8.242	75 ✓	75-125	16 ✓	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	105	52-127				
Bromobenzene	105	45-140				

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 RPD: 0 out of 1 outside limits
 Spike Recovery: 0 out of 2 outside limits



BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123575-001	S-WW-3	24652	12/04/95	12/05/95	12/05/95	

Analyte	Units	123575-001
Diln Fac:		1
Benzene	ug/Kg	<5
Toluene	ug/Kg	<5
Ethylbenzene	ug/Kg	<5
m,p-Xylenes	ug/Kg	<5
o-Xylene	ug/Kg	<5
Surrogate		
Trifluorotoluene	%REC	102
Bromobenzene	%REC	99



Lab #: 123575

BATCH QC REPORT

Page 1 of 1

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/04/95
Batch#: 24652	Analysis Date: 12/04/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC10051

Analyte	Result	
Benzene	<5.0	✓
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	106	43-114
Bromobenzene	98	47-112



Lab #: 123575

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/04/95
Batch#: 24652	Analysis Date: 12/04/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC10050

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	104.1	100	104	80-120
Toluene	105.2	100	105	80-120
Ethylbenzene	103.9	100	104	80-120
m,p-Xylenes	203.8	200	102	80-120
o-Xylene	109.5	100	110	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	104	43-114		
Bromobenzene	91	47-112		

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 Spike Recovery: 0 out of 5 outside limits



TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123575-001	S-WW-3	24654	12/04/95	12/04/95	12/05/95	

Analyte	Units	123575-001
Diln Fac:		1
Kerosene Range	mg/Kg	3 YL
Diesel Range	mg/Kg	<1
Motor Oil Range	mg/Kg	<25
Surrogate		
Hexacosane	%REC	106

Y: Sample exhibits fuel pattern which does not resemble standard
L: Lighter hydrocarbons than indicated standard



Lab #: 123575

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: 3550	
Location: Bohannon			
METHOD BLANK			
Matrix: Soil		Prep Date: 12/04/95	
Batch#: 24654		Analysis Date: 12/05/95	
Units: mg/Kg			
Diln Fac: 1			

MB Lab ID: QC10057

Analyte	Result		
Kerosene Range	<1.0	J	
Diesel Range	<1.0		
Motor Oil Range	<25		
Surrogate	%Rec		Recovery Limits
Hexacosane	93	J	60-140



Lab #: 123575

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Location: Bohannon	Prep Method: 3550
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/04/95
Batch#: 24654	Analysis Date: 12/05/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10058

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	52.5	51.3	102 ✓	60-140
Surrogate	%Rec	Limits		
Hexacosane	108	60-140	✓	

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits



Lab #: 123575

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Location: Bohannon	Prep Method: 3550
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 12/01/95
Lab ID: 123565-002	Received Date: 12/01/95
Matrix: Soil	Prep Date: 12/04/95
Batch#: 24654	Analysis Date: 12/05/95
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC10059

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Diesel Range	51.3	<1.000	168.7	33 *	60-140
Surrogate	%Rec	Limits			
Hexacosane	93	60-140			

MSD Lab ID: QC10060

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Diesel Range	51.3	315.1	319 *	60-140	162 *	<30
Surrogate	%Rec	Limits				
Hexacosane	95	60-140				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 123575
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

DATE SAMPLED: 12/09/95
DATE RECEIVED: 12/09/95
DATE EXTRACTED: 12/05/95
DATE ANALYZED: 12/05/95
DATE REPORTED: 12/05/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123575-001	S-WW-3	ND	25
123575-METHOD	BLANK	ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	102

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: (510) 656-9780

Additional documents are attached, and are a part of this Record.
 Job Name: Rehannon
 Location: 575 Paseo Comanche
San Lorenzo, CA

Project # 70074-001-02 Task # _____
 Project Manager Steve M=Cabe
 Laboratory Portola Hills Company
 Turnaround Time 24 hour
 Sampler's Name Steve M=Cabe
 Sampler's Signature [Signature]

				Analysis Request													Number of Containers	
Sample ID	Date	Time	Matrix	HClD	TPH ₀ /BTEX/WTPH-G 8015 (modified)/8020	TPH ₀ /WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions		
S. WW-3	12/14	1400	Soil		X		X									X	1235-15-1	1
	1/4																	
	1/5																	

Special Instructions/Comments:
Hold Remaining Soil for possible Additional Analyses

Relinquished by: [Signature]
 Sign _____
 Print Steve M=Cabe
 Company SECOR
 Time 5:30 Date 12/14

Received by: [Signature]
 Sign _____
 Print Josef De la Rosa
 Company CAIT
 Time 5:30 Date 12/14/00

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____
 Client: _____
 Client Contact: _____
 Client Phone: _____



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 29-DEC-95
Lab Job Number: 123563
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by: _____

Frank K Morris

Reviewed by: _____

[Signature]

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Curtis & Tompkins, Ltd.

SAMPLE ID: S-NW-3
 LAB ID: 123563-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 12/01/95
 DATE RECEIVED: 12/01/95
 DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24646	EPA 6010A	12/06/95
Arsenic	3.6	0.25	24646	EPA 6010A	12/06/95
Barium	200	0.50	24646	EPA 6010A	12/06/95
Beryllium	0.81	0.10	24646	EPA 6010A	12/06/95
Cadmium	1.0	0.050	24646	EPA 6010A	12/06/95
Chromium (total)	48	0.50	24646	EPA 6010A	12/06/95
Cobalt	8.7	1.0	24646	EPA 6010A	12/06/95
Copper	18	0.50	24646	EPA 6010A	12/06/95
Lead	7.4	0.15	24646	EPA 6010A	12/06/95
Mercury	ND	0.10	24668	EPA 7471	12/05/95
Molybdenum	ND	1.0	24646	EPA 6010A	12/06/95
Nickel	42	1.0	24646	EPA 6010A	12/06/95
Selenium	0.95	0.25	24646	EPA 6010A	12/06/95
Silver	ND	0.50	24646	EPA 6010A	12/06/95
Thallium	ND	0.25	24646	EPA 6010A	12/06/95
Vanadium	37	0.50	24646	EPA 6010A	12/06/95
Zinc	38	1.0	24646	EPA 6010A	12/06/95

ND = Not detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 123563

DATE REPORTED: 12/29/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24646	EPA 6010A	12/06/95
Arsenic	ND	0.25	mg/Kg	24646	EPA 6010A	12/06/95
Barium	ND	0.5	mg/Kg	24646	EPA 6010A	12/06/95
Beryllium	ND	0.1	mg/Kg	24646	EPA 6010A	12/06/95
Cadmium	ND	0.05	mg/Kg	24646	EPA 6010A	12/06/95
Chromium (total)	ND	0.5	mg/Kg	24646	EPA 6010A	12/06/95
Cobalt	ND	1	mg/Kg	24646	EPA 6010A	12/06/95
Copper	ND	0.5	mg/Kg	24646	EPA 6010A	12/06/95
Lead	ND	0.15	mg/Kg	24646	EPA 6010A	12/06/95
Mercury	ND	0.1	mg/Kg	24668	EPA 7471	12/05/95
Molybdenum	ND	1	mg/Kg	24646	EPA 6010A	12/06/95
Nickel	ND	1	mg/Kg	24646	EPA 6010A	12/06/95
Selenium	ND	0.25	mg/Kg	24646	EPA 6010A	12/06/95
Silver	ND	0.5	mg/Kg	24646	EPA 6010A	12/06/95
Thallium	ND	0.25	mg/Kg	24646	EPA 6010A	12/06/95
Vanadium	ND	0.5	mg/Kg	24646	EPA 6010A	12/06/95
Zinc	ND	1	mg/Kg	24646	EPA 6010A	12/06/95

ND = Not Detected at or above reporting limit



Curtis & Tompkins, Ltd.

CLIENT: Secor
 JOB NUMBER: 123563

DATE REPORTED: 12/29/95

BATCH QC REPORT
 BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	479	494	ug/L	96	99	98	3	24646	EPA 6010A	12/06/95
Arsenic	2000	1730	1790	ug/L	87	90	89	3	24646	EPA 6010A	12/06/95
Barium	2000	1910	1950	ug/L	96	98	97	2	24646	EPA 6010A	12/06/95
Beryllium	50	48.9	50.8	ug/L	98	102	100	4	24646	EPA 6010A	12/06/95
Cadmium	50	47.2	49	ug/L	94	98	96	4	24646	EPA 6010A	12/06/95
Chromium (total)	200	189	197	ug/L	95	99	97	4	24646	EPA 6010A	12/06/95
Cobalt	500	463	482	ug/L	93	96	95	4	24646	EPA 6010A	12/06/95
Copper	250	240	247	ug/L	96	99	98	3	24646	EPA 6010A	12/06/95
Lead	500	456	472	ug/L	91	94	93	3	24646	EPA 6010A	12/06/95
Mercury	5	4.428	4.959	ug/L	89	99	94	11	24668	EPA 7470	12/05/95
Molybdenum	400	362	374	ug/L	91	94	93	3	24646	EPA 6010A	12/06/95
Nickel	500	464	482	ug/L	93	96	95	4	24646	EPA 6010A	12/06/95
Selenium	2000	1610	1650	ug/L	81	83	82	3	24646	EPA 6010A	12/06/95
Silver	100	97.6	101	ug/L	98	101	100	3	24646	EPA 6010A	12/06/95
Thallium	2000	1860	1920	ug/L	93	96	95	3	24646	EPA 6010A	12/06/95
Vanadium	500	468	485	ug/L	94	97	96	4	24646	EPA 6010A	12/06/95
Zinc	500	433	448	ug/L	87	90	89	3	24646	EPA 6010A	12/06/95



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-NW-3
Lab ID: 123563-001
Matrix: Soil
Batch#: 24673
Units: ug/Kg
Diln Fac: 1

Sampled: 12/01/95
Received: 12/01/95
Extracted: 12/05/95
Analyzed: 12/06/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-NW-3
 Lab ID: 123563-001
 Matrix: Soil
 Batch#: 24673
 Units: ug/Kg
 Diln Fac: 1

Sampled: 12/01/95
 Received: 12/01/95
 Extracted: 12/05/95
 Analyzed: 12/06/95

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	68	25-121
Phenol-d5	64	24-113
2,4,6-Tribromophenol	52	19-122
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	51	30-115
Terphenyl-d14	61	18-137



Lab #: 123563

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics		
Client: Secor	Analysis Method: EPA 8270	
Project#: 70074-001-02	Prep Method: EPA 3550	
Location: Bohannon Development		
METHOD BLANK		
Matrix: Soil	Prep Date: 12/05/95	
Batch#: 24673	Analysis Date: 12/06/95	
Units: ug/Kg		
Diln Fac: 1		

MB Lab ID: QC10131

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700



Lab #: 123563

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics		
Client: Secor	Analysis Method: EPA 8270	
Project#: 70074-001-02	Prep Method: EPA 3550	
Location: Bohannon Development		
METHOD BLANK		
Matrix: Soil	Prep Date: 12/05/95	
Batch#: 24673	Analysis Date: 12/06/95	
Units: ug/Kg		
Diln Fac: 1		

MB Lab ID: QC10131

Analyte	Result	Reporting Limit
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Rec	Recovery Limits
2-Fluorophenol	64	25-121
Phenol-d5	61	24-113
2,4,6-Tribromophenol	54	19-122
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	56	30-115
Terphenyl-d14	57	18-137



Lab #: 123563

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

LABORATORY CONTROL SAMPLE

Matrix: Soil
 Batch#: 24673
 Units: ug/Kg
 Diln Fac: 1

Prep Date: 12/05/95
 Analysis Date: 12/06/95

LCS Lab ID: QC10132

Analyte	Result	Spike Added	%Rec #	Limits
Phenol	2185	3333	66	26-90
2-Chlorophenol	2098	3333	63	25-102
4-Chloro-3-methylphenol	2147	3333	64	26-103
4-Nitrophenol	2299	3333	69	11-114
Pentachlorophenol	1709	3333	51	17-109
1,4-Dichlorobenzene	1032	1667	62	28-104
N-Nitroso-di-n-propylamine	981.9	1667	59	41-126
1,2,4-Trichlorobenzene	1040	1667	62	38-107
Acenaphthene	1023	1667	61	31-137
2,4-Dinitrotoluene	1102	1667	66	28-89
Pyrene	967.9	1667	58	35-142
Surrogate			%Rec	Limits
2-Fluorophenol			75	25-121
Phenol-d5			72	24-113
2,4,6-Tribromophenol			71	19-122
Nitrobenzene-d5			68	23-120
2-Fluorobiphenyl			66	30-115
Terphenyl-d14			63	18-137

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 Spike Recovery: 0 out of 11 outside limits



Lab #: 123563

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics		
Client: Secor	Analysis Method: EPA 8270	
Project#: 70074-001-02	Prep Method: EPA 3550	
Location: Bohannon Development		
MATRIX SPIKE/MATRIX SPIKE DUPLICATE		
Field ID: S-NW-4	Sample Date: 12/01/95	
Lab ID: 123563-002	Received Date: 12/01/95	
Matrix: Soil	Prep Date: 12/05/95	
Batch#: 24673	Analysis Date: 12/06/95	
Units: ug/Kg		
Diln Fac: 1		

MS Lab ID: QC10133

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Phenol	3333	<330.0	2054	62	26-90
2-Chlorophenol	3333	<330.0	1990	60	25-102
4-Chloro-3-methylphenol	3333	<330.0	2083	62	26-103
4-Nitrophenol	3333	<1700	2324	70	11-114
Pentachlorophenol	3333	<1700	1383	41	17-109
1,4-Dichlorobenzene	1667	<330.0	618.2	37	28-104
N-Nitroso-di-n-propylamine	1667	<330.0	917	46	41-126
1,2,4-Trichlorobenzene	1667	<330.0	777	47	38-107
Acenaphthene	1667	<330.0	924	55	31-137
2,4-Dinitrotoluene	1667	<330.0	1041	62	28-89
Pyrene	1667	<330.0	773.4	46	35-142
Surrogate	%Rec	Limits			
2-Fluorophenol	71	25-121			
Phenol-d5	67	24-113			
2,4,6-Tribromophenol	71	19-122			
Nitrobenzene-d5	65	23-120			
2-Fluorobiphenyl	60	30-115			
Terphenyl-d14	62	18-137			

MSD Lab ID: QC10134

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Phenol	3333	2304	69	26-90	11	<35
2-Chlorophenol	3333	2136	64	25-102	6	<50
4-Chloro-3-methylphenol	3333	2284	69	26-103	11	<33
4-Nitrophenol	3333	2246	67	11-114	4	<50
Pentachlorophenol	3333	1305	39	17-109	5	<47
1,4-Dichlorobenzene	1667	502.3	30	28-104	21	<27
N-Nitroso-di-n-propylamine	1667	982.2	50	41-126	8	<38
1,2,4-Trichlorobenzene	1667	695.1	42	38-107	11	<23
Acenaphthene	1667	934.7	56	31-137	2	<19
2,4-Dinitrotoluene	1667	1058	63	28-89	2	<47
Pyrene	1667	915.3	55	35-142	18	<36
Surrogate	%Rec	Limits				
2-Fluorophenol	77	25-121				
Phenol-d5	75	24-113				
2,4,6-Tribromophenol	73	19-122				
Nitrobenzene-d5	66	23-120				
2-Fluorobiphenyl	62	30-115				
Terphenyl-d14	70	18-137				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123563-001	S-NW-3	24628	12/01/95	12/02/95	12/02/95	
123563-002	S-NW-4	24628	12/01/95	12/02/95	12/02/95	

Analyte	Units	123563-001	123563-002
Diln Fac:		1	1
Gasoline	mg/Kg	<1	<1
Mineral Spirits	mg/Kg	<2	<2
Surrogate			
Trifluorotoluene	%REC	99	100
Bromobenzene	%REC	92	94



Lab #: 123563

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
METHOD BLANK			
Matrix: Soil		Prep Date: 12/02/95	
Batch#: 24628		Analysis Date: 12/02/95	
Units: mg/Kg			
Diln Fac: 1			

MB Lab ID: QC09974

Analyte	Result		
Gasoline	<1.0	✓	
Mineral Spirits	<2.0	✓	
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	96	✓	52-127
Bromobenzene	81		45-140



Lab #: 123563

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil		Prep Date: 12/02/95	
Batch#: 24628		Analysis Date: 12/02/95	
Units: mg/Kg			
Diln Fac: 1			

LCS Lab ID: QC09972

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	9.6	10	96	80-120 ✓
Surrogate	%Rec	Limits		
Trifluorotoluene	108	52-127	✓	
Bromobenzene	95	45-140		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits



BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123563-001	S-NW-3	24628	12/01/95	12/02/95	12/02/95	
123563-002	S-NW-4	24628	12/01/95	12/02/95	12/02/95	

Analyte	Units	123563-001	123563-002
Diln Fac:		1	1
Benzene	ug/Kg	<5	<5
Toluene	ug/Kg	<5	<5
Ethylbenzene	ug/Kg	<5	<5
m,p-Xylenes	ug/Kg	<5	<5
o-Xylene	ug/Kg	<5	<5
Surrogate			
Trifluorotoluene	%REC	98	100
Bromobenzene	%REC	91	94



Lab #: 123563

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/02/95
Batch#: 24628	Analysis Date: 12/02/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC09974

Analyte	Result	
Benzene	<5.0	J
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	96	43-114
Bromobenzene	80	47-112



Lab #: 123563

BATCH QC REPORT

BTXE	
Client: Secor Project#: 70074-001-02 Location: Bohannon Development	Analysis Method: BTXE Prep Method: EPA 5030
LABORATORY CONTROL SAMPLE	
Matrix: Soil Batch#: 24628 Units: ug/Kg Diln Fac: 1	Prep Date: 12/02/95 Analysis Date: 12/02/95

LCS Lab ID: QC09972


Analyte	Result	Spike Added	%Rec #	Limits
Benzene	101.5	100	102	80-120
Toluene	102.3	100	102	80-120
Ethylbenzene	101.9	100	102	80-120
m,p-Xylenes	197.4	200	98	80-120
o-Xylene	107.3	100	107	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	96	43-114		
Bromobenzene	89	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

LABORATORY NUMBER: 123563
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

 Curtis & Tompkins, Ltd.
DATE SAMPLED: 12/01/95
DATE RECEIVED: 12/01/95
DATE EXTRACTED: 12/04/95
DATE ANALYZED: 12/04/95
DATE REPORTED: 12/05/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123563-001	S-NW-3	ND	25
123563-002	S-NW-4	ND	25
123563-METHOD	BLANK	ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	4
RECOVERY, %	97



TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123563-001	S-NW-3	24626	12/01/95	12/01/95	12/02/95	
123563-002	S-NW-4	24626	12/01/95	12/01/95	12/02/95	

Analyte	Units	123563-001	123563-002
Diln Fac:		1	1
Kerosene Range	mg/Kg	<1	<1
Diesel Range	mg/Kg	<1	<1
Motor Oil Range	mg/Kg	<25	<25
Surrogate			
Hexacosane	%REC	117	107



Lab #: 123563

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons			
Client:	Secor	Analysis Method:	CA LUFT (EPA 8015M)
Project#:	70074-001-02	Prep Method:	3550
Location:	Bohannon Development		
METHOD BLANK			
Matrix:	Soil	Prep Date:	12/01/95
Batch#:	24626	Analysis Date:	12/02/95
Units:	mg/Kg		
Diln Fac:	1		

MB Lab ID: QC09963

Analyte	Result		
Kerosene Range	<1.0	✓	
Diesel Range	<1.0		
Motor Oil Range	<25		
Surrogate	%Rec		Recovery Limits
Hexacosane	116	✓	60-140



Lab #: 123563

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: 3550
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/01/95
Batch#: 24626	Analysis Date: 12/04/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC09964

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	61.1	51.3	119 ✓	60-140
Surrogate	%Rec	Limits		
Hexacosane	112	60-140	✓	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



Lab #: 123563

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: 3550

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: S-NW-3
 Lab ID: 123563-001
 Matrix: Soil
 Batch#: 24626
 Units: mg/Kg
 Diln Fac: 1

Sample Date: 12/01/95
 Received Date: 12/01/95
 Prep Date: 12/01/95
 Analysis Date: 12/02/95

MS Lab ID: QC09965

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Diesel Range	51.3	<1.000	63.2	123 ✓	60-140
Surrogate	%Rec	Limits			
Hexacosane	98	60-140			

MSD Lab ID: QC09966

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Diesel Range	51.3	65.1	127	60-140	3	<30
Surrogate	%Rec	Limits				
Hexacosane	108	60-140				✓

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 RPD: 0 out of 1 outside limits
 Spike Recovery: 0 out of 2 outside limits

123563

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: 1390 Willow Pass Rd, Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Behannon Development
 Location: 575 Pasco Grande
San Lorenzo CA

Project # 70074-001-02 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis & Thompson
 Turnaround Time 24 hr. / Standard
 98 hr.
 Sampler's Name Charles Melancon
 Sampler's Signature Charles Melancon

Analysis Request

Sample ID	Date	Time	Matrix	HClD	TPH-g/BTEX/TPH-G 8015 (modified)	TPH-g/TPH-L 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
S-NW-3	12-1-95		Soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>					CAM 17 Hydrocarbon Scan	
S-NW-4	12-1-95		Soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>						
Pit	12-1-95		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												

-2
-3

Special Instructions/Comments:
 Hydrocarbon Scan Includes:
 TPH - Mineral Spirits, Kerosene,
 Motor Oil, TPH-g, and TRPH
 24 hr. only those specified
 with this symbol

Relinquished by:
 Sign Charles Melancon
 Print Charles Melancon
 Company SECOR
 Time 3:30 Date 12-1-95

Relinquished by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Received by: [Signature]
 Sign _____
 Print Doree de la Garza
 Company CA
 Time 3:30 Date 12/1/95

Received by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Sample Receipt

Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold:
 Confirms to record: _____

Client: _____
 Client Contact: _____
 Client Phone: _____



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 18-DEC-95
Lab Job Number: 123623
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Teresa K Morris

Reviewed by:

Tracy B. By

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Curtis & Tompkins, Ltd.

SAMPLE ID: (S-WW-3)
 LAB ID: 123623-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 12/04/95
 DATE RECEIVED: 12/04/95
 DATE REPORTED: 12/20/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24766	EPA 6010A	12/13/95
Arsenic	5.0	0.24	24766	EPA 6010A	12/13/95
Barium	170	0.48	24766	EPA 6010A	12/13/95
Beryllium	0.65	0.095	24766	EPA 6010A	12/13/95
Cadmium	1.4	0.048	24766	EPA 6010A	12/13/95
Chromium (total)	43	0.48	24766	EPA 6010A	12/13/95
Cobalt	10	0.95	24766	EPA 6010A	12/13/95
Copper	18	0.48	24766	EPA 6010A	12/13/95
Lead	7.0	0.14	24766	EPA 6010A	12/13/95
Mercury	0.20	0.10	24778	EPA 7471	12/13/95
Molybdenum	ND	0.95	24766	EPA 6010A	12/13/95
Nickel	46	0.95	24766	EPA 6010A	12/13/95
Selenium	0.41	0.24	24766	EPA 6010A	12/13/95
Silver	ND	0.48	24766	EPA 6010A	12/13/95
Thallium	ND	0.24	24766	EPA 6010A	12/13/95
Vanadium	40	0.48	24766	EPA 6010A	12/13/95
Zinc	46	0.95	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

CLIENT: Secor
JOB NUMBER: 123623

DATE REPORTED: 12/20/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24766	EPA 6010A	12/13/95
Arsenic	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Barium	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Beryllium	ND	0.1	mg/Kg	24766	EPA 6010A	12/13/95
Cadmium	ND	0.05	mg/Kg	24766	EPA 6010A	12/13/95
Chromium (total)	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Cobalt	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Copper	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Lead	ND	0.15	mg/Kg	24766	EPA 6010A	12/13/95
Mercury	ND	0.2	ug/L	24778	EPA 7470	12/13/95
Molybdenum	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Nickel	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Selenium	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Silver	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Thallium	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Vanadium	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Zinc	ND	1	mg/Kg	24766	EPA 6010A	12/13/95

ND = Not Detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 123623

DATE REPORTED: 12/20/95

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	517	525	ug/L	103	105	104	2	24766	EPA 6010A	12/13/95
Arsenic	2000	1830	1860	ug/L	92	93	93	2	24766	EPA 6010A	12/13/95
Barium	2000	1980	2020	ug/L	99	101	100	2	24766	EPA 6010A	12/13/95
Beryllium	50	53	53.2	ug/L	106	106	106	0	24766	EPA 6010A	12/13/95
Cadmium	50	50.5	50.6	ug/L	101	101	101	0	24766	EPA 6010A	12/13/95
Chromium (total)	200	203	204	ug/L	102	102	102	1	24766	EPA 6010A	12/13/95
Cobalt	500	495	496	ug/L	99	99	99	0	24766	EPA 6010A	12/13/95
Copper	250	244	248	ug/L	98	99	99	2	24766	EPA 6010A	12/13/95
Lead	500	485	487	ug/L	97	97	97	0	24766	EPA 6010A	12/13/95
Mercury	5	4.75	4.723	ug/L	95	95	95	1	24778	EPA 7470	12/13/95
Molybdenum	400	381	383	ug/L	95	96	96	1	24766	EPA 6010A	12/13/95
Nickel	500	498	504	ug/L	100	101	101	1	24766	EPA 6010A	12/13/95
Selenium	2000	1710	1740	ug/L	86	87	87	2	24766	EPA 6010A	12/13/95
Silver	100	102	103	ug/L	102	103	103	1	24766	EPA 6010A	12/13/95
Thallium	2000	1990	2020	ug/L	100	101	101	2	24766	EPA 6010A	12/13/95
Vanadium	500	497	501	ug/L	99	100	100	1	24766	EPA 6010A	12/13/95
Zinc	500	472	478	ug/L	94	96	95	1	24766	EPA 6010A	12/13/95

OK



Semivolatile Organics by GC/MS

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8270
Prep Method: EPA 3550

Field ID: S-WW-3
Lab ID: 123623-001
Matrix: Soil
Batch#: 24752
Units: ug/Kg
Diln Fac: 1

Sampled: 12/04/95
Received: 12/04/95
Extracted: 12/11/95
Analyzed: 12/13/95

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330



Semivolatile Organics by GC/MS

Field ID: S-WW-3
 Lab ID: 123623-001
 Matrix: Soil
 Batch#: 24752
 Units: ug/Kg
 Diln Fac: 1

Sampled: 12/04/95
 Received: 12/04/95
 Extracted: 12/11/95
 Analyzed: 12/13/95

Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	86	25-121
Phenol-d5	85	24-113
2,4,6-Tribromophenol	63	19-122
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	94	30-115
Terphenyl-d14	86	18-137



Lab #: 123623

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

METHOD BLANK

Matrix: Soil
 Batch#: 24752
 Units: ug/Kg
 Diln Fac: 1

Prep Date: 12/11/95
 Analysis Date: 12/13/95

MB Lab ID: QC10471

Analyte	Result	Reporting Limit
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1700
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1700
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
Pentachlorophenol	ND	1700
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
bis(2-Chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-Chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1700
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1700



Lab #: 123623

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics		
Client: Secor	Analysis Method: EPA 8270	
Project#: 70074-001-02	Prep Method: EPA 3550	
Location: Bohannon Development		
METHOD BLANK		
Matrix: Soil	Prep Date: 12/11/95	
Batch#: 24752	Analysis Date: 12/13/95	
Units: ug/Kg		
Diln Fac: 1		

MB Lab ID: QC10471

Analyte	Result	Reporting Limit
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1700
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Surrogate	%Rec	Recovery Limits
2-Fluorophenol	99	25-121
Phenol-d5	97	24-113
2,4,6-Tribromophenol	58	19-122
Nitrobenzene-d5	89	23-120
2-Fluorobiphenyl	100	30-115
Terphenyl-d14	87	18-137



Lab #: 123623

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics			
Client: Secor	Analysis Method: EPA 8270		
Project#: 70074-001-02	Prep Method: EPA 3550		
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil	Prep Date: 12/11/95		
Batch#: 24752	Analysis Date: 12/13/95		
Units: ug/Kg			
Diln Fac: 1			

LCS Lab ID: QC10472

Analyte	Result	Spike Added	%Rec #	Limits
Phenol	2586	3333	78	26-90
2-Chlorophenol	2434	3333	73	25-102
4-Chloro-3-methylphenol	2249	3333	67	26-103
4-Nitrophenol	1946	3333	58	11-114
Pentachlorophenol	1771	3333	53	17-109
1,4-Dichlorobenzene	1330	1667	80	28-104
N-Nitroso-di-n-propylamine	1148	1667	69	41-126
1,2,4-Trichlorobenzene	1257	1667	75	38-107
Acenaphthene	1353	1667	81	31-137
2,4-Dinitrotoluene	1058	1667	63	28-89
Pyrene	1520	1667	91	35-142
Surrogate	%Rec	Limits		
2-Fluorophenol	86	25-121		
Phenol-d5	84	24-113		
2,4,6-Tribromophenol	68	19-122		
Nitrobenzene-d5	83	23-120		
2-Fluorobiphenyl	92	30-115		
Terphenyl-d14	91	18-137		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits



Lab #: 123623

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: EPA 8270
 Prep Method: EPA 3550

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: S-WW-3
 Lab ID: 123623-001
 Matrix: Soil
 Batch#: 24752
 Units: ug/Kg
 Diln Fac: 1

Sample Date: 12/04/95
 Received Date: 12/04/95
 Prep Date: 12/11/95
 Analysis Date: 12/13/95

MS Lab ID: QC10473

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Phenol	3333	<330.0	2775	83	26-90
2-Chlorophenol	3333	<330.0	2623	79	25-102
4-Chloro-3-methylphenol	3333	<330.0	2591	78	26-103
4-Nitrophenol	3333	<1700	2213	66	11-114
Pentachlorophenol	3333	<1700	1940	58	17-109
1,4-Dichlorobenzene	1667	<330.0	1413	85	28-104
N-Nitroso-di-n-propylamine	1667	<330.0	1269	76	41-126
1,2,4-Trichlorobenzene	1667	<330.0	1297	78	38-107
Acenaphthene	1667	<330.0	1405	84	31-137
2,4-Dinitrotoluene	1667	<330.0	1237	74	28-89
Pyrene	1667	<330.0	1463	88	35-142
Surrogate	%Rec	Limits			
2-Fluorophenol	93	25-121			
Phenol-d5	92	24-113			
2,4,6-Tribromophenol	74	19-122			
Nitrobenzene-d5	87	23-120			
2-Fluorobiphenyl	91	30-115			
Terphenyl-d14	88	18-137			

MSD Lab ID: QC10474

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Phenol	3333	2800	84	26-90	1	<35
2-Chlorophenol	3333	2647	79	25-102	0	<50
4-Chloro-3-methylphenol	3333	2672	80	26-103	3	<33
4-Nitrophenol	3333	2346	70	11-114	6	<50
Pentachlorophenol	3333	2036	61	17-109	8	<47
1,4-Dichlorobenzene	1667	1353	81	28-104	5	<27
N-Nitroso-di-n-propylamine	1667	1261	76	41-126	0	<38
1,2,4-Trichlorobenzene	1667	1292	78	38-107	0	<23
Acenaphthene	1667	1396	84	31-137	0	<19
2,4-Dinitrotoluene	1667	1251	75	28-89	1	<47
Pyrene	1667	1564	94	35-142	7	<36
Surrogate	%Rec	Limits				
2-Fluorophenol	95	25-121				
Phenol-d5	92	24-113				
2,4,6-Tribromophenol	78	19-122				
Nitrobenzene-d5	87	23-120				
2-Fluorobiphenyl	90	30-115				
Terphenyl-d14	94	18-137				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits



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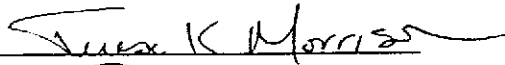
A N A L Y T I C A L R E P O R T

Prepared for:

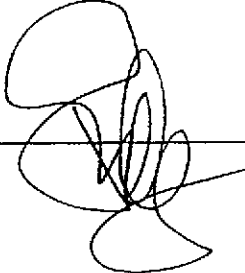
Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 06-DEC-95
Lab Job Number: 123598
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:




Reviewed by:



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LABORATORY NUMBER: 123598
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

 Curtis & Tompkins, Ltd.
DATE ANALYZED: 12/05/95
DATE RECEIVED: 12/05/95
DATE EXTRACTED: 12/06/95
DATE ANALYZED: 12/06/95
DATE REPORTED: 12/06/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123598-001	PUMP ISLAND	1,100	50
123598-001	PRODUCT LINE	ND	25
123598-METHOD	BLANK	ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	100



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123598-001	PUMP ISLAND	24684	12/05/95	12/06/95	12/06/95	
123598-002	PRODUCT LINE	24684	12/05/95	12/06/95	12/06/95	

Analyte	Units	123598-001	123598-002
Diln Fac:		150	1
Gasoline	mg/Kg	610 Y	<1
Mineral Spirits	mg/Kg	2200 Y	3 Y
Surrogate			
Trifluorotoluene	%REC	112	101
Bromobenzene	%REC	84	104

Y: Sample exhibits fuel pattern which does not resemble standard



BTXE			
Client:	Secor	Analysis Method:	BTXE
Project#:	70074-001-02	Prep Method:	EPA 5030
Location:	Bohannon Development		

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123598-001	PUMP ISLAND	24684	12/05/95	12/06/95	12/06/95	
123598-002	PRODUCT LINE	24684	12/05/95	12/06/95	12/06/95	

Analyte	Units	123598-001	123598-002
Diln Fac:		150	1
Benzene	ug/Kg	<75	16
Toluene	ug/Kg	<75	<5
Ethylbenzene	ug/Kg	9900	<5
m,p-Xylenes	ug/Kg	2600	<5
o-Xylene	ug/Kg	<75	<5
Surrogate			
Trifluorotoluene	%REC	154 *	102
Bromobenzene	%REC	108	102

* Values outside of QC limits

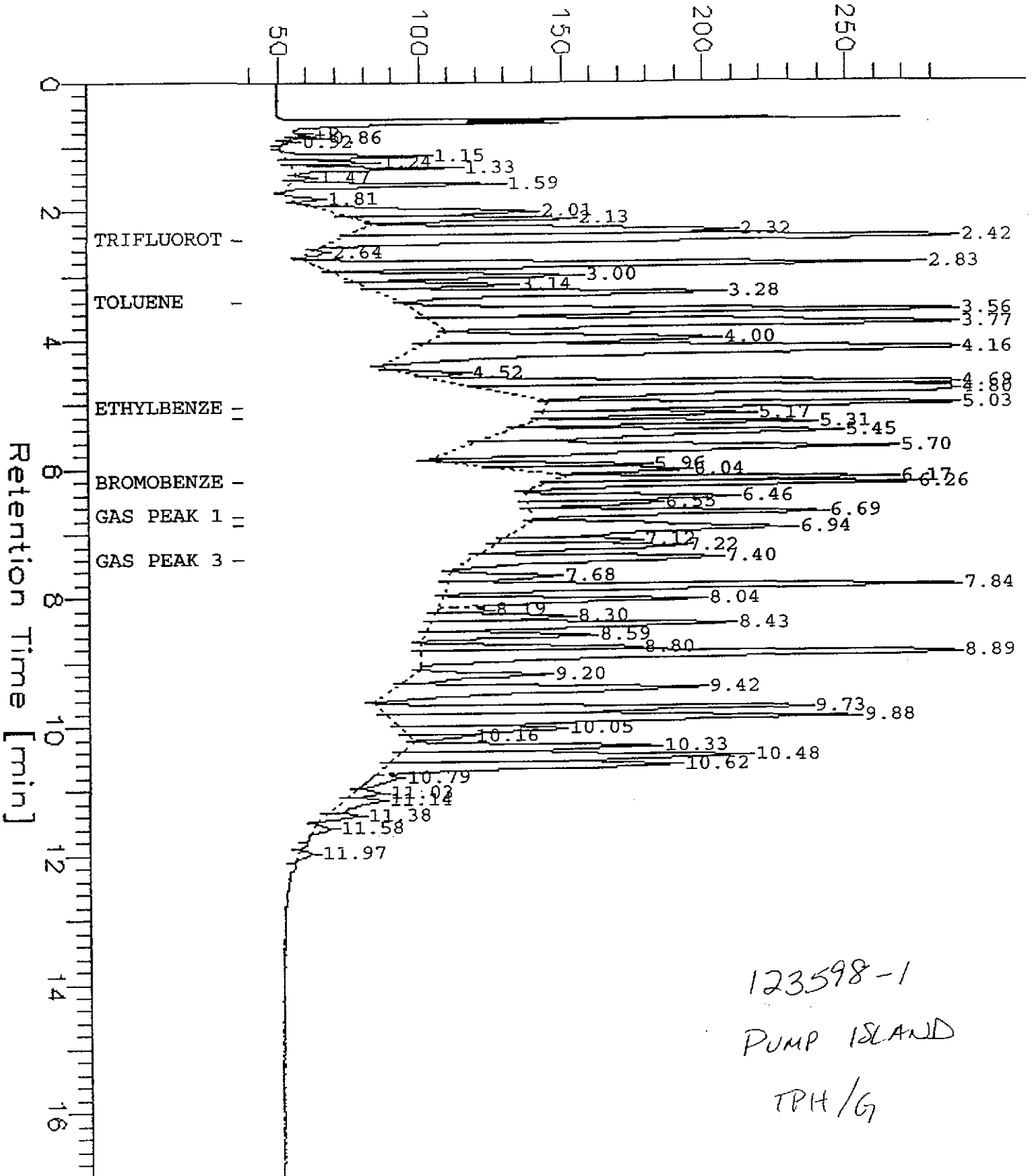
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Scale Factor: -1

End Time : 17.00 min
Plot Offset: 37 mV

Date : 12/6/95 1:12 PM
Low Point : 36.98 mV
Plot Scale: 250 mV

Page 1 of 1
High Point : 286.98 mV

Response [mV]



FileName : G:\GC04\340J009.raw

Date : 12/6/95 2:08 PM

Page 1 of 1

Start Time : 0.00 min

End Time : 17.00 min

Low Point : 36.99 mV

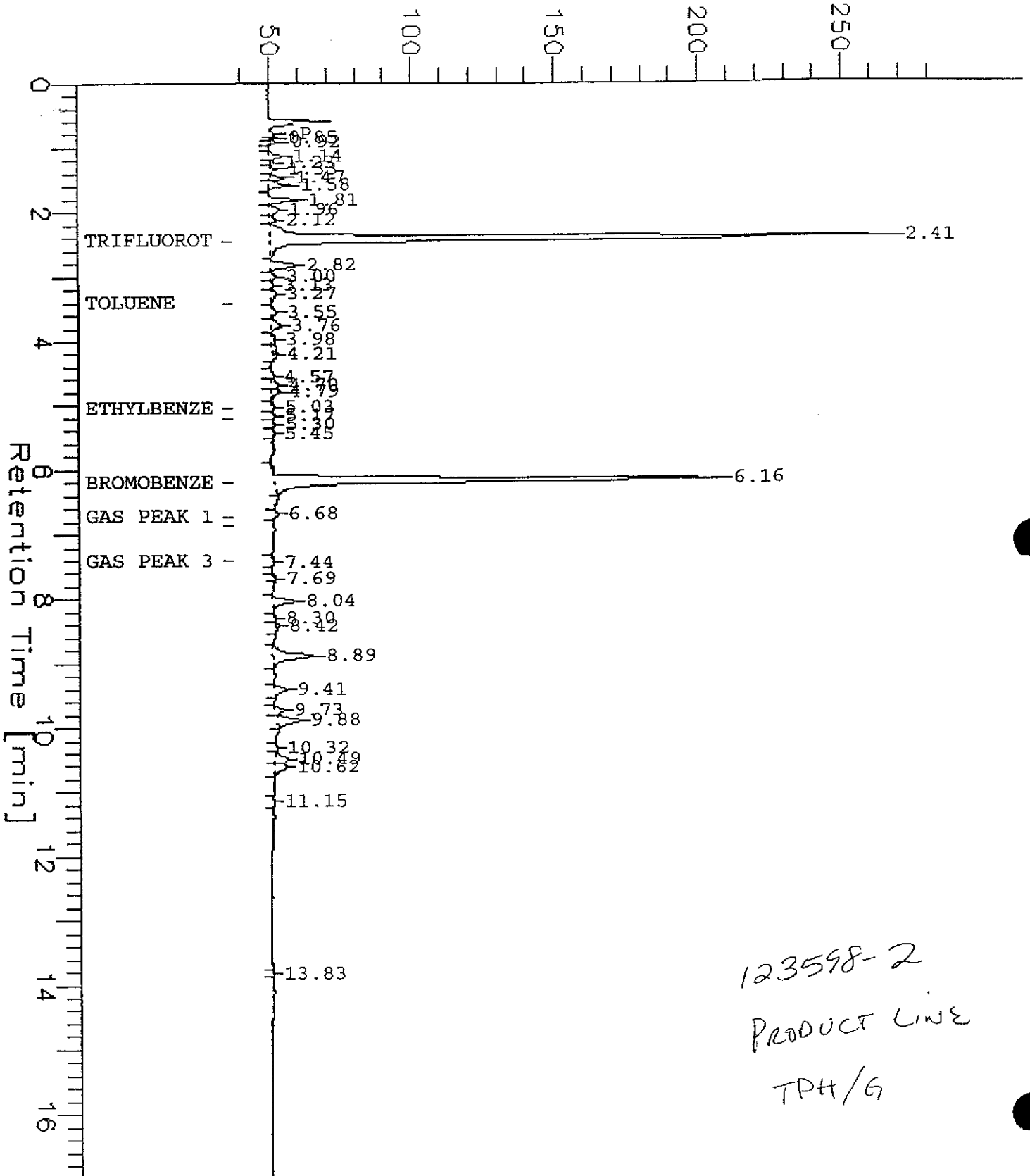
High Point : 286.99 mV

Scale Factor: -1

Plot Offset: 37 mV

Plot Scale: 250 mV

Response [mV]



123598-2
PRODUCT LINE
TPH/G



Lab #: 123598

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 24684
Units: mg/Kg
Diln Fac: 1

Prep Date: 12/06/95
Analysis Date: 12/06/95

MB Lab ID: QC10174

Analyte	Result	
Gasoline	<1.0	✓
Mineral Spirits	<2.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	96	52-127
Bromobenzene	93	45-140



Lab #: 123598

BATCH QC REPORT

BTXE			
Client: Secor		Analysis Method: BTXE	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
METHOD BLANK			
Matrix: Soil		Prep Date: 12/06/95	
Batch#: 24684		Analysis Date: 12/06/95	
Units: ug/Kg			
Diln Fac: 1			

MB Lab ID: QC10174

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	✓
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	97	43-114
Bromobenzene	94	47-112



Lab #: 123598

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil		Prep Date: 12/06/95	
Batch#: 24684		Analysis Date: 12/06/95	
Units: mg/Kg			
Diln Fac: 1			

LCS Lab ID: QC10172

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10.2	10	102	80-120 ✓
Surrogate	%Rec	Limits		
Trifluorotoluene	111	52-127	✓	
Bromobenzene	102	45-140		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits



Lab #: 123598

BATCH QC REPORT

BTXE			
Client: Secor		Analysis Method: BTXE	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil		Prep Date: 12/06/95	
Batch#: 24684		Analysis Date: 12/06/95	
Units: ug/Kg			
Diln Fac: 1			

LCS Lab ID: QC10173

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	104.1	100	104	80-120
Toluene	104.7	100	105	80-120
Ethylbenzene	103.8	100	104	80-120
m,p-Xylenes	206.6	200	103	80-120
o-Xylene	111.2	100	111	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	98	43-114		
Bromobenzene	96	47-112		

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 Spike Recovery: 0 out of 5 outside limits



Lab #: 123598

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: PRODUCT LINE	Sample Date: 12/05/95
Lab ID: 123598-002	Received Date: 12/05/95
Matrix: Soil	Prep Date: 12/06/95
Batch#: 24684	Analysis Date: 12/06/95
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC10175

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	10	<1.000	10.8	108 ✓	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	109	52-127			
Bromobenzene	110	45-140			

MSD Lab ID: QC10176

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	10	11.5	115	75-125	6 ✓	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	111	52-127				
Bromobenzene	113	45-140				

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 RPD: 0 out of 1 outside limits
 Spike Recovery: 0 out of 2 outside limits



TEH-Tot Ext Hydrocarbons

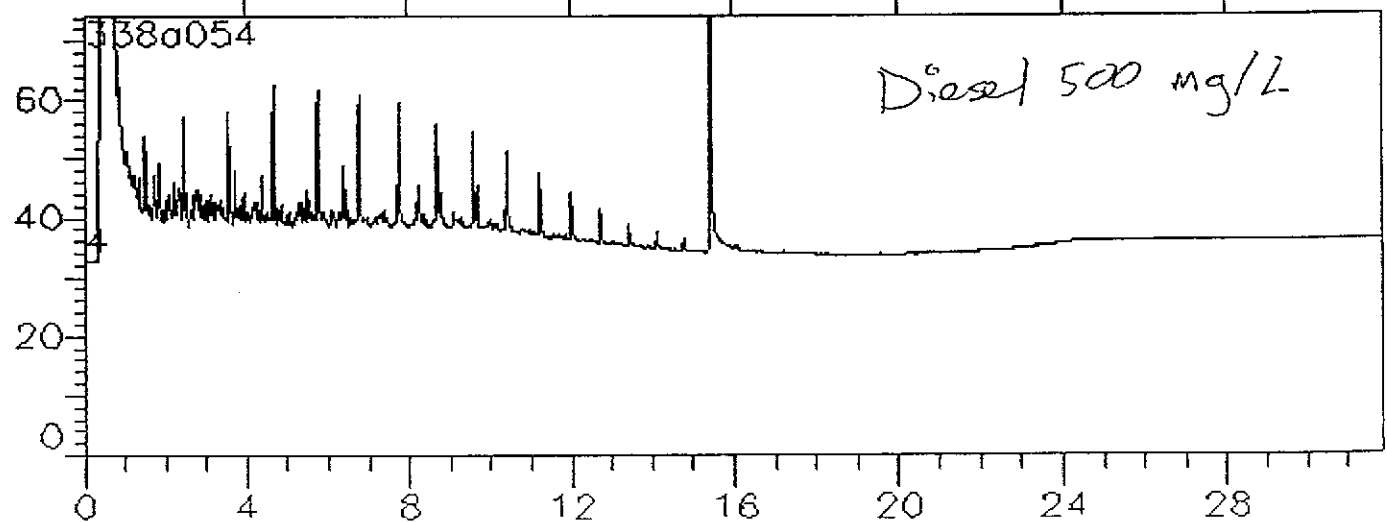
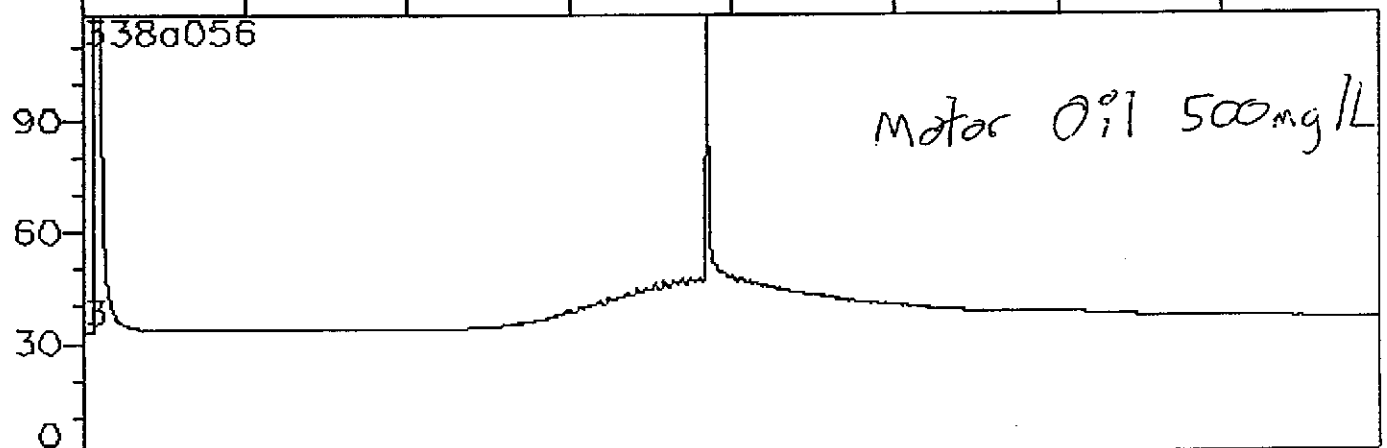
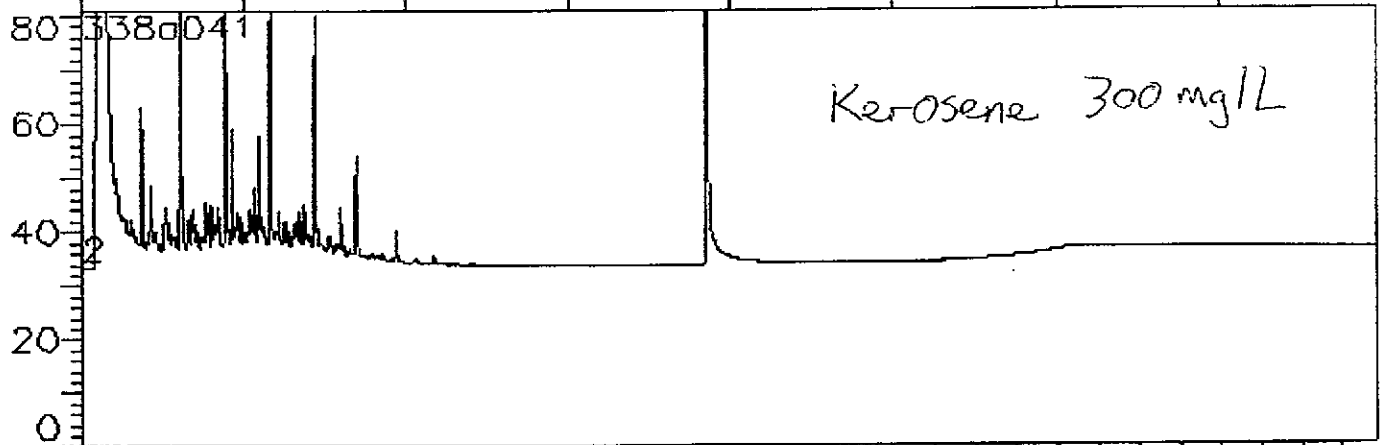
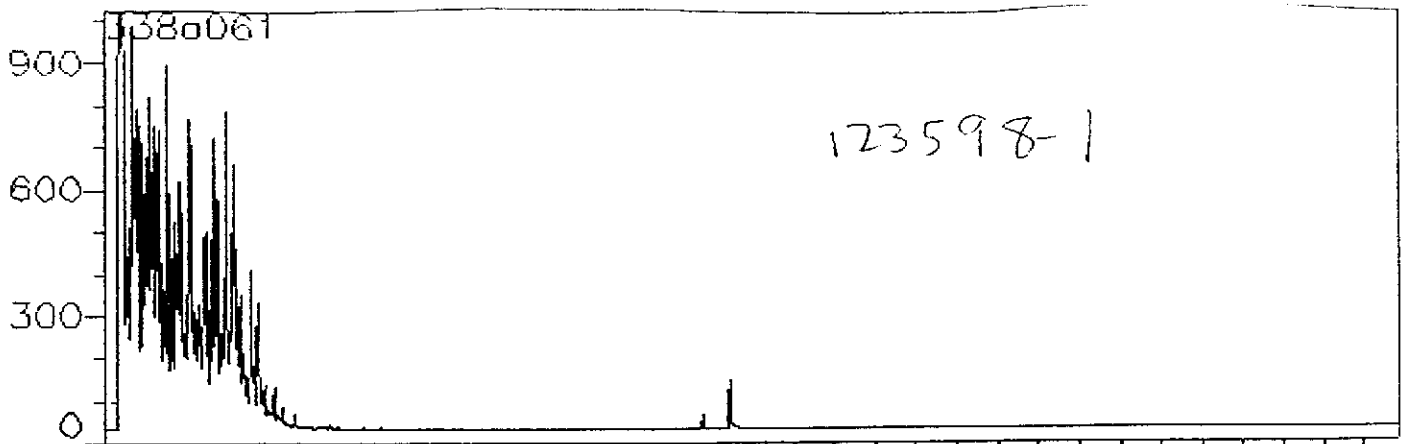
Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

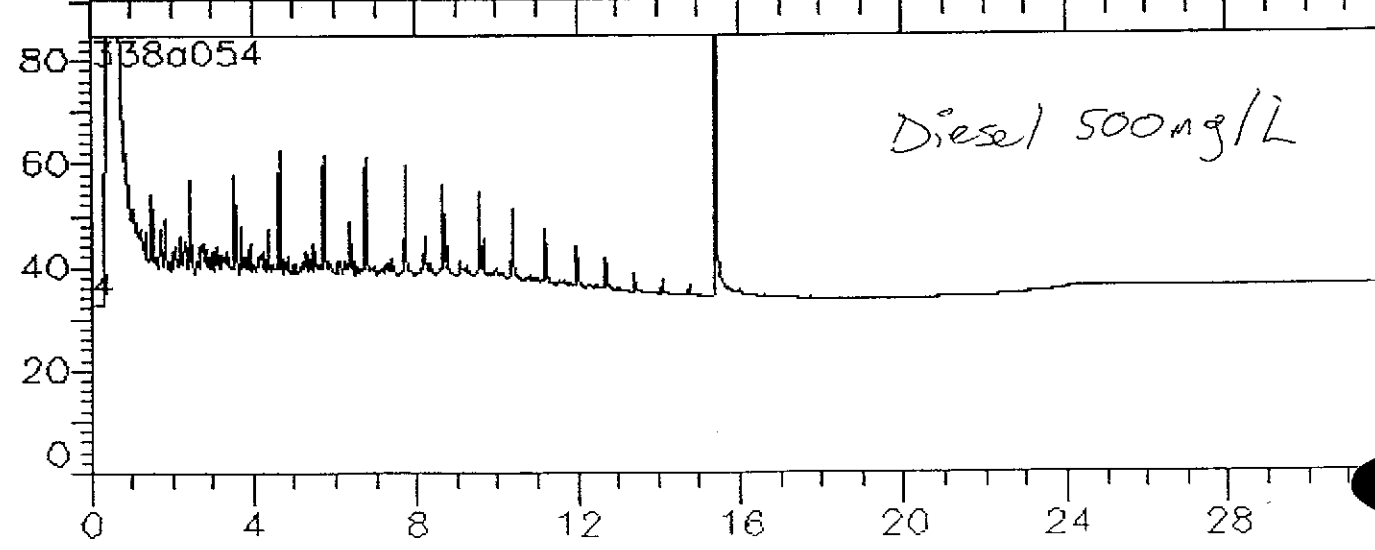
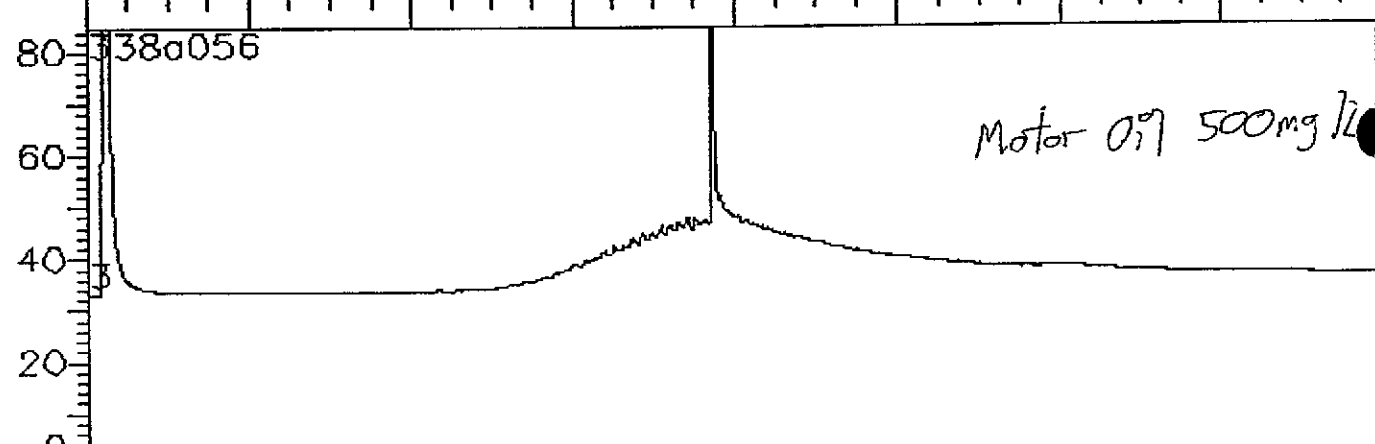
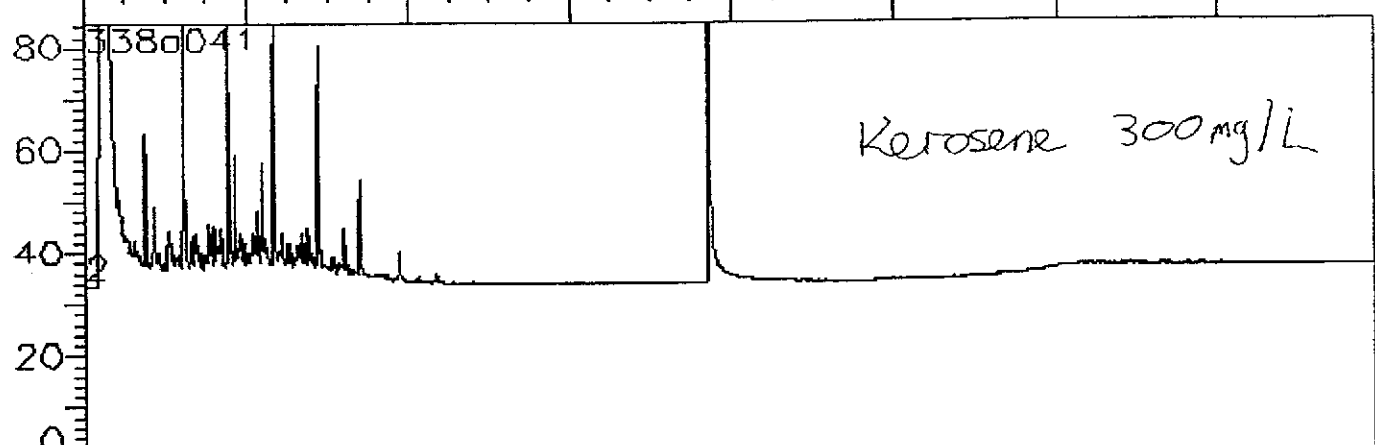
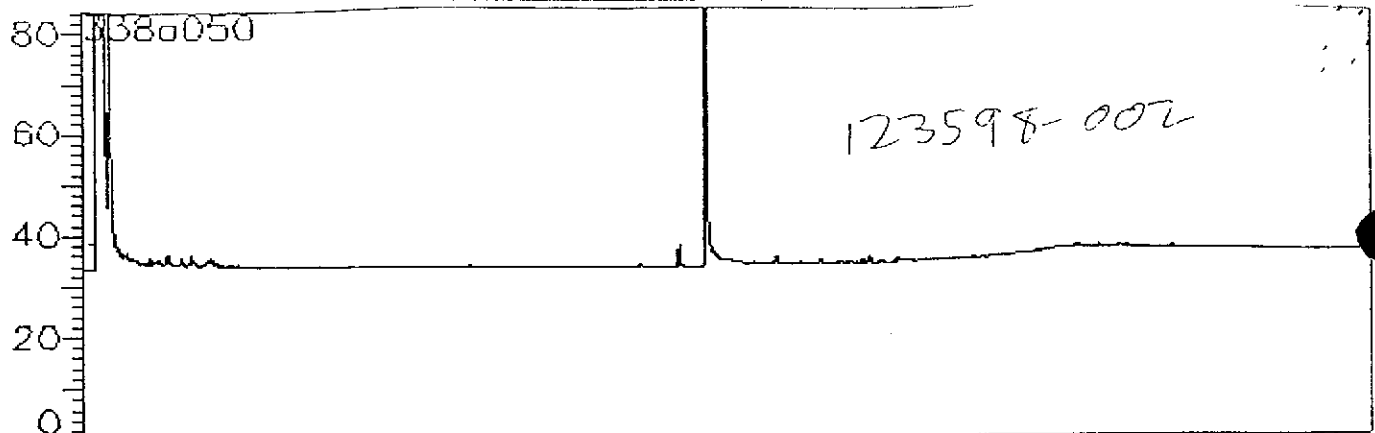
Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123598-001	PUMP ISLAND	24676	12/05/95	12/05/95	12/06/95	
123598-002	PRODUCT LINE	24676	12/05/95	12/05/95	12/06/95	

Analyte	Units	123598-001	123598-002
Diln Fac:		1	1
Kerosene Range	mg/Kg	590 YL	1.9Y
Diesel Range	mg/Kg	39 YL	<1
Motor Oil Range	mg/Kg	<25	<25
Surrogate			
Hexacosane	%REC	79	78

Y: Sample exhibits fuel pattern which does not resemble standard
L: Lighter hydrocarbons than indicated standard







Lab #: 123598

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: 3550	
Location: Bohannon Development			
METHOD BLANK			
Matrix: Soil		Prep Date: 12/05/95	
Batch#: 24676		Analysis Date: 12/05/95	
Units: mg/Kg			
Diln Fac: 1			

MB Lab ID: QC10143

Analyte	Result		
Kerosene Range	<1.0	✓	
Diesel Range	<1.0		
Motor Oil Range	<25		
Surrogate	%Rec		Recovery Limits
Hexacosane	84	✓	60-140



Lab #: 123598

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: 3550
Location: Bohannon Development	
BLANK SPIKE/BLANK SPIKE DUPLICATE	
Matrix: Soil	Prep Date: 12/05/95
Batch#: 24676	Analysis Date: 12/05/95
Units: mg/Kg	
Diln Fac: 1	

BS Lab ID: QC10158

Analyte	Spike Added	BS	%Rec #	Limits
Diesel Range	51.3	63.3	123 ✓	60-140
Surrogate	%Rec	Limits		
Hexacosane	80	60-140		

BSD Lab ID: QC10159

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Diesel Range	51.3	60	117	60-140 ✓	5	<30
Surrogate	%Rec	Limits				
Hexacosane	79	60-140				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

12.3598

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: CS107 686-9780

Additional documents are attached, and are a part of this Record.
 Job Name: Behaviken
 Location: San Lorenzo

Project # 70074-001-02 Task # _____
 Project Manager Steve MacCabe
 Laboratory Curtis & Tempkins
 Turnaround Time 24-hour

Analysis Request

Sampler's Name Steve MacCabe
 Sampler's Signature [Signature]

Sample ID	Date	Time	Matrix	HCID	TPH/BTEX/TPH-G 8015 (modified)/8020	TPH/TPH-D 8015 (modified)	TPH 418.1/TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
Dump Island	12/5	1340	Soil		X		X										
Product Line	12/5	1345	Soil		X		X										

Special Instructions/Comments:

Relinquished by: [Signature]
 Sign _____
 Print Steve MacCabe
 Company _____
 Time 15:09 Date 12/5

Received by: [Signature]
 Sign _____
 Print Jose Lopez
 Company CSI
 Time 15:05 Date 12/5

Sample Receipt
 Total no. of containers: _____
 Chain of custody-seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____
 Client: _____
 Client Contact: _____
 Client Phone: _____



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520


Date: 29-DEC-95
Lab Job Number: 123597
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Reviewed by:

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LABORATORY NUMBER: 123597
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

 Curtis & Tompkins, Ltd.
DATE RECEIVED: 12/05/95
DATE EXTRACTED: 12/06/95
DATE ANALYZED: 12/06/95
DATE REPORTED: 12/06/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123597-001	U-SW-1	49	25
123597-METHOD	BLANK	ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	100

SAMPLE ID: W-SW-1
 LAB ID: 123597-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 12/05/95
 DATE RECEIVED: 12/05/95
 DATE REPORTED: 12/07/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24677	EPA 6010A	12/06/95
Arsenic	3.8	0.24	24677	EPA 6010A	12/06/95
Barium	110	0.49	24677	EPA 6010A	12/06/95
Beryllium	0.54	0.097	24677	EPA 6010A	12/06/95
Cadmium	0.81	0.049	24677	EPA 6010A	12/06/95
Chromium (total)	33	0.49	24677	EPA 6010A	12/06/95
Cobalt	7.6	0.97	24677	EPA 6010A	12/06/95
Copper	14	0.49	24677	EPA 6010A	12/06/95
Lead	6.6	0.15	24677	EPA 6010A	12/06/95
Mercury	0.11	0.10	24693	EPA 7471	12/06/95
Molybdenum	ND	0.97	24677	EPA 6010A	12/06/95
Nickel	37	0.97	24677	EPA 6010A	12/06/95
Selenium	0.72	0.24	24677	EPA 6010A	12/06/95
Silver	ND	0.49	24677	EPA 6010A	12/06/95
Thallium	ND	0.24	24677	EPA 6010A	12/06/95
Vanadium	28	0.49	24677	EPA 6010A	12/06/95
Zinc	36	0.97	24677	EPA 6010A	12/06/95

ND = Not detected at or above reporting limit

CLIENT: Secor
JOB NUMBER: 123597

DATE REPORTED: 12/07/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24677	EPA 6010A	12/06/95
Arsenic	ND	0.25	mg/Kg	24677	EPA 6010A	12/06/95
Barium	ND	0.5	mg/Kg	24677	EPA 6010A	12/06/95
Beryllium	ND	0.1	mg/Kg	24677	EPA 6010A	12/06/95
Cadmium	ND	0.05	mg/Kg	24677	EPA 6010A	12/06/95
Chromium (total)	ND	0.5	mg/Kg	24677	EPA 6010A	12/06/95
Cobalt	ND	1	mg/Kg	24677	EPA 6010A	12/06/95
Copper	ND	0.5	mg/Kg	24677	EPA 6010A	12/06/95
Lead	ND	0.15	mg/Kg	24677	EPA 6010A	12/06/95
Mercury	ND	0.1	mg/Kg	24693	EPA 7471	12/06/95
Molybdenum	ND	1	mg/Kg	24677	EPA 6010A	12/06/95
Nickel	ND	1	mg/Kg	24677	EPA 6010A	12/06/95
Selenium	ND	0.25	mg/Kg	24677	EPA 6010A	12/06/95
Silver	ND	0.5	mg/Kg	24677	EPA 6010A	12/06/95
Thallium	ND	0.25	mg/Kg	24677	EPA 6010A	12/06/95
Vanadium	ND	0.5	mg/Kg	24677	EPA 6010A	12/06/95
Zinc	ND	1	mg/Kg	24677	EPA 6010A	12/06/95

ND = Not Detected at or above reporting limit

CLIENT: Secor
 JOB NUMBER: 123597

DATE REPORTED: 12/07/95

 BATCH QC REPORT
 BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	525	487	ug/L	105	97	101	8	24677	EPA 6010A	12/06/95
Arsenic	2000	1830	1760	ug/L	92	88	90	4	24677	EPA 6010A	12/06/95
Barium	2000	1960	1890	ug/L	98	95	97	4	24677	EPA 6010A	12/06/95
Beryllium	50	51	49.2	ug/L	102	98	100	4	24677	EPA 6010A	12/06/95
Cadmium	50	49.9	47.9	ug/L	100	96	98	4	24677	EPA 6010A	12/06/95
Chromium (total)	200	196	190	ug/L	98	95	97	3	24677	EPA 6010A	12/06/95
Cobalt	500	483	469	ug/L	97	94	96	3	24677	EPA 6010A	12/06/95
Copper	250	247	242	ug/L	99	97	98	2	24677	EPA 6010A	12/06/95
Lead	2000	479	465	ug/L	96	93	95	3	24677	EPA 6010A	12/06/95
Mercury	5	4.607	4.755	ug/L	92	95	94	3	24693	EPA 7470	12/06/95
Molybdenum	400	375	363	ug/L	94	91	93	3	24677	EPA 6010A	12/06/95
Nickel	500	483	467	ug/L	97	93	95	3	24677	EPA 6010A	12/06/95
Selenium	2000	1710	1620	ug/L	86	81	84	5	24677	EPA 6010A	12/06/95
Silver	100	102	98.5	ug/L	102	99	101	4	24677	EPA 6010A	12/06/95
Thallium	2000	1950	1880	ug/L	98	94	96	4	24677	EPA 6010A	12/06/95
Vanadium	500	485	470	ug/L	97	94	96	3	24677	EPA 6010A	12/06/95
Zinc	500	450	435	ug/L	90	87	89	3	24677	EPA 6010A	12/06/95





TEH-Tot Ext Hydrocarbons

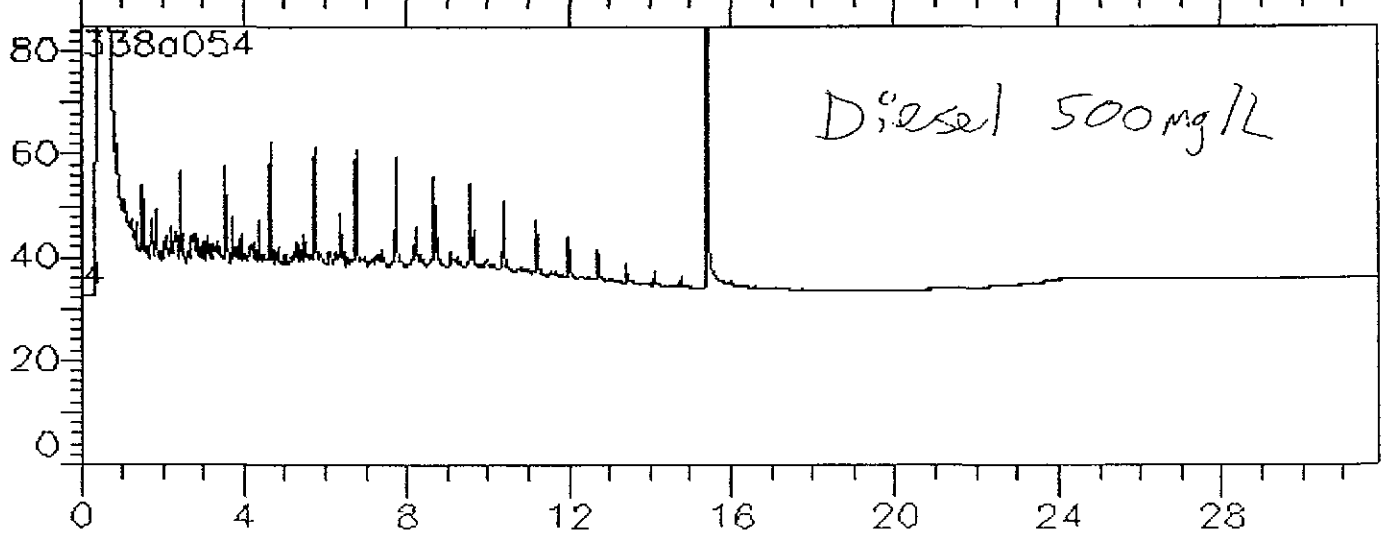
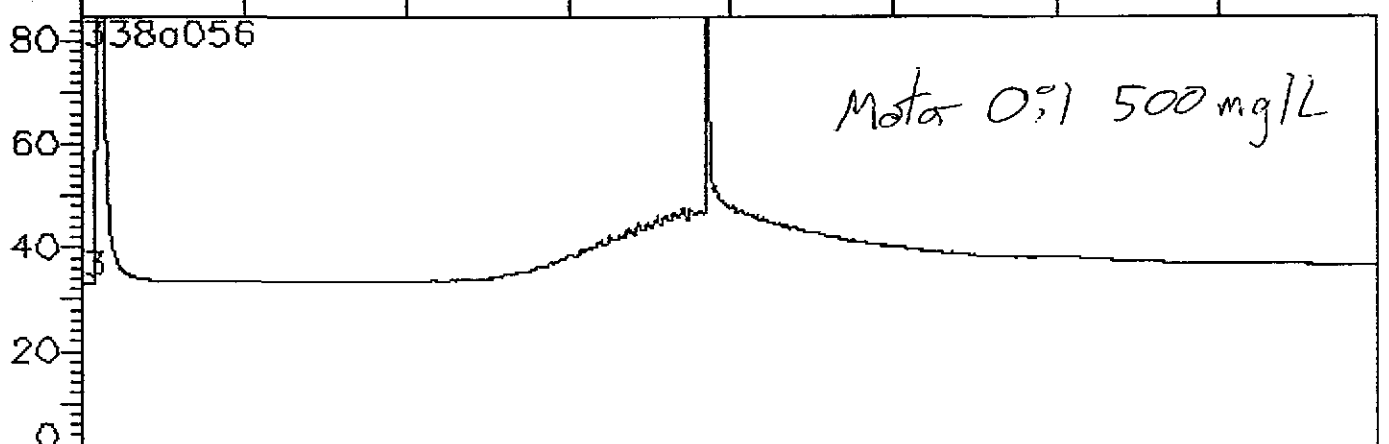
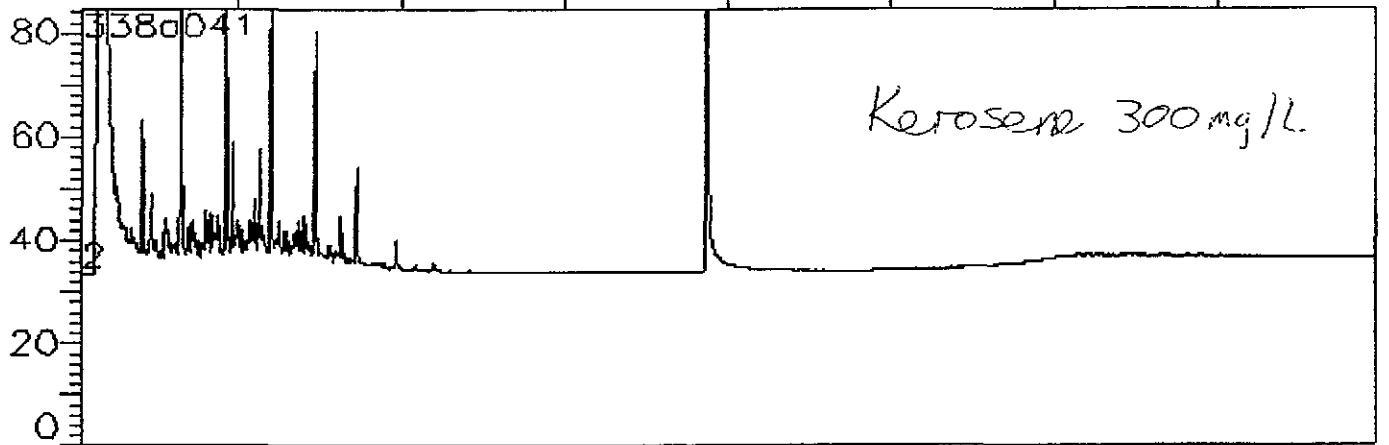
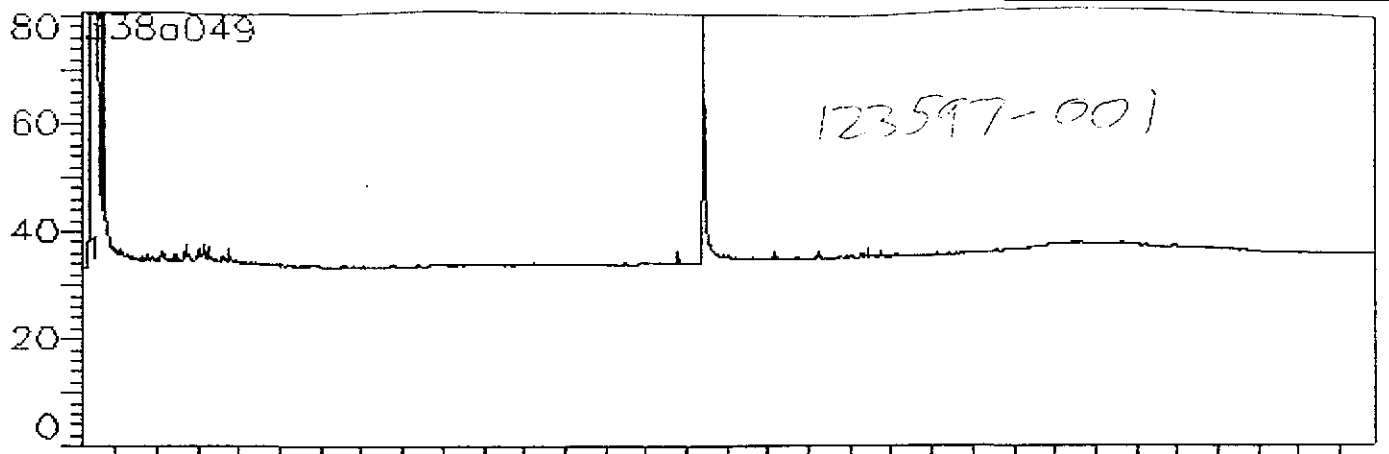
Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123597-001	U-SW-1	24676	12/05/95	12/05/95	12/05/95	

Analyte	Units	123597-001
Diln Fac:		1
Kerosene Range	mg/Kg	3.2Y
Diesel Range	mg/Kg	<1
Motor Oil Range	mg/Kg	<25
Surrogate		
Hexacosane	%REC	69

Y: Sample exhibits fuel pattern which does not resemble standard





Lab #: 123597

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: 3550

METHOD BLANK

Matrix: Soil
Batch#: 24676
Units: mg/Kg
Diln Fac: 1

Prep Date: 12/05/95
Analysis Date: 12/05/95

MB Lab ID: QC10143

Analyte	Result		
Kerosene Range	<1.0	✓	
Diesel Range	<1.0		
Motor Oil Range	<25		
Surrogate	%Rec		Recovery Limits
Hexacosane	84	✓	60-140



Lab #: 123597

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: 3550

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Soil
 Batch#: 24676
 Units: mg/Kg
 Diln Fac: 1

Prep Date: 12/05/95
 Analysis Date: 12/05/95

BS Lab ID: QC10158

Analyte	Spike Added	BS	%Rec #	Limits
Diesel Range	51.3	63.3	123	60-140
Surrogate	%Rec	Limits		
Hexacosane	80	60-140		

BSD Lab ID: QC10159

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Diesel Range	51.3	60	117	60-140	5	<30
Surrogate	%Rec	Limits				
Hexacosane	79	60-140				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



TVH-Total Volatile Hydrocarbons


Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123597-001	U-SW-1	24684	12/05/95	12/06/95	12/06/95	

Analyte	Units	123597-001
Diln Fac:		1
Gasoline	mg/Kg	<1
Surrogate		
Trifluorotoluene	%REC	100
Bromobenzene	%REC	100

LABORATORY NUMBER: 123597
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

 Curtis & Tompkins, Ltd.
DATE SAMPLED: 12/05/95
DATE RECEIVED: 12/05/95
DATE EXTRACTED: 12/06/95
DATE ANALYZED: 12/06/95
DATE REPORTED: 12/06/95

Total Volatile Hydrocarbons (EPA 8015M) as Mineral Spirits

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123597-001	U-SW-1	4.4 Y	2
123597-METHOD	BLANK	ND	2

ND = Not detected at or above reporting limit.

Y: Sample chromatogram exhibits hydrocarbon pattern which does not resemble standard.



BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123597-001	U-SW-1	24684	12/05/95	12/06/95	12/06/95	

Analyte	Units	123597-001
Diln Fac:		1
Benzene	ug/Kg	<5
Toluene	ug/Kg	<5
Ethylbenzene	ug/Kg	<5
m,p-Xylenes	ug/Kg	<5
o-Xylene	ug/Kg	<5
Surrogate		
Trifluorotoluene	%REC	100
Bromobenzene	%REC	100

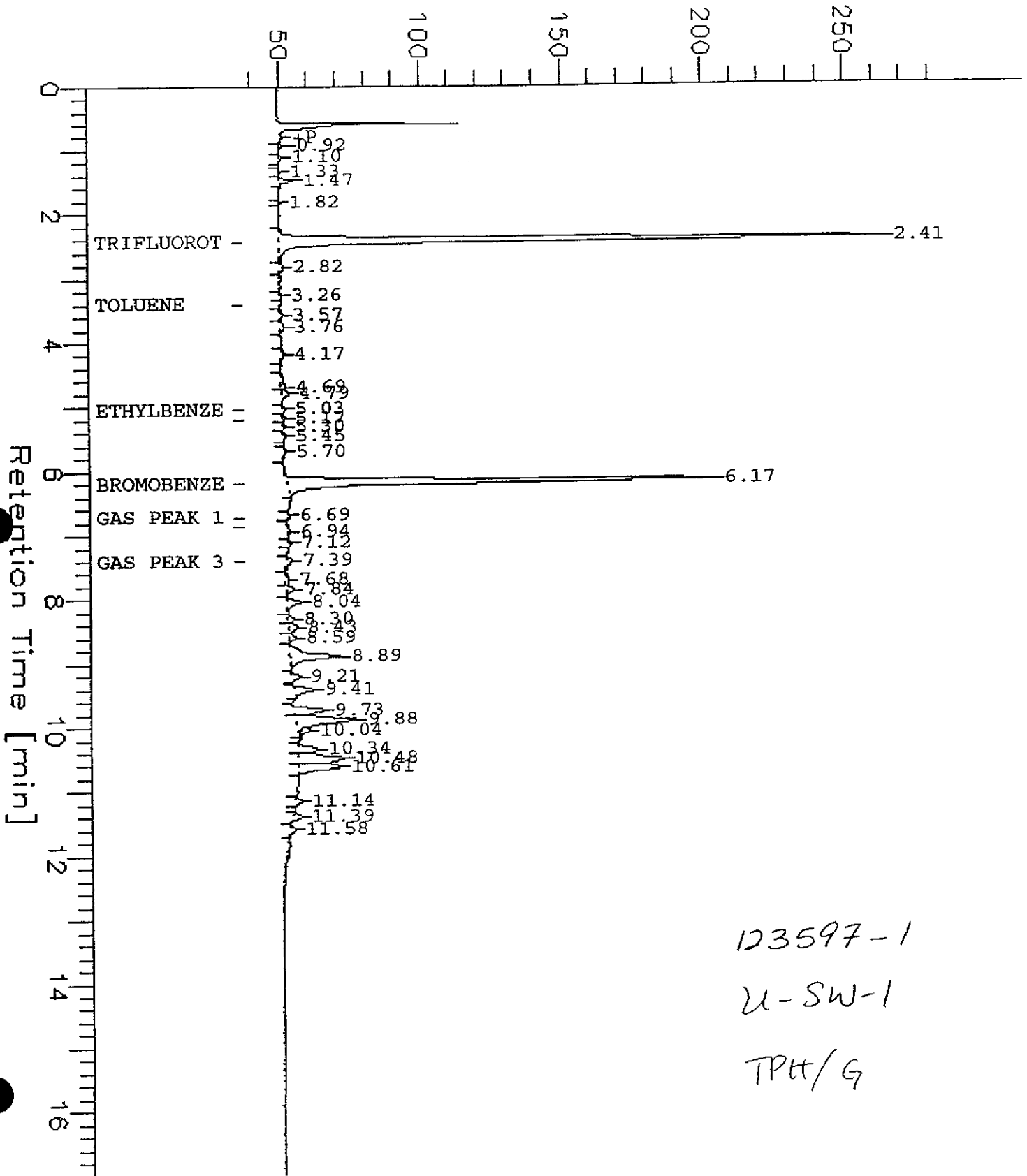
FileName : G:\GCD4\340J008.raw
Start Time : 0.00 min
Scale Factor: -1

End Time : 17.00 min
Plot Offset: 37 mV

Date : 12/6/95 1:40 PM
Low Point : 36.99 mV
Plot Scale: 250 mV

Page 1 of 1
High Point : 286.99 mV

Response [mV]



123597-1
U-SW-1
TPH/G



Lab #: 123597

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 24684
Units: mg/Kg
Diln Fac: 1

Prep Date: 12/06/95
Analysis Date: 12/06/95

MB Lab ID: QC10174

Analyte	Result		
Gasoline	<1.0	✓	
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	96	✓	52-127
Bromobenzene	93	✓	45-140



Lab #: 123597

BATCH QC REPORT

BTXE			
Client: Secor	Analysis Method: BTXE		
Project#: 70074-001-02	Prep Method: EPA 5030		
Location: Bohannon Development			
METHOD BLANK			
Matrix: Soil	Prep Date: 12/06/95		
Batch#: 24684	Analysis Date: 12/06/95		
Units: ug/Kg			
Diln Fac: 1			

MB Lab ID: QC10174

Analyte	Result		
Benzene	<5.0	✓	
Toluene	<5.0		
Ethylbenzene	<5.0		
m,p-Xylenes	<5.0		
o-Xylene	<5.0		
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	97	✓	43-114
Bromobenzene	94		47-112



Lab #: 123597

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/06/95
Batch#: 24684	Analysis Date: 12/06/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10172

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10.2	10	102	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	111	52-127		
Bromobenzene	102	45-140		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits



Lab #: 123597

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/06/95
Batch#: 24684	Analysis Date: 12/06/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC10173

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	104.1	100	104	80-120
Toluene	104.7	100	105	80-120
Ethylbenzene	103.8	100	104	80-120
m,p-Xylenes	206.6	200	103	80-120
o-Xylene	111.2	100	111	80-120
Surrogate	%Rec			Limits
Trifluorotoluene	98			43-114
Bromobenzene	96			47-112

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123597

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 12/05/95
Lab ID: 123598-002	Received Date: 12/05/95
Matrix: Soil	Prep Date: 12/06/95
Batch#: 24684	Analysis Date: 12/06/95
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC10175

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	10	<1.000	10.8	108 ✓	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	109 ✓	52-127			
Bromobenzene	110 ✓	45-140			

MSD Lab ID: QC10176

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	10	11.5	115 ✓	75-125	6 ✓	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	111 ✓	52-127				
Bromobenzene	113 ✓	45-140				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

123597

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: (510) 686-9780

Additional documents are attached, and are a part of this Record.
 Job Name: Bohannon
 Location: San Lorenzo

Project # 70074-60162 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis A Tomkins
 Turnaround Time 24 hour

Sampler's Name Steve McCabe
 Sampler's Signature [Signature]

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPH ₀ /BTEX/WTPH-G 8015 (modified)/8020	TPH ₀ /WTPH-D 8015 (modified)	TPH 418/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCE/PCBs CAN 17	ILC ECON	Comments/ Instructions	Number of Containers
D-SW-1	12/14/95	1:50	Soil		X	X									X	X		

Special Instructions/Comments:

Relinquished by: [Signature]
 Sign _____
 Print Steve McCabe
 Company _____
 Time 1:50 Date 12/14/95

Received by: [Signature]
 Sign _____
 Print Steve McCabe
 Company CAT
 Time 1:50 Date 12/14/95

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record:

Relinquished by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Received by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Client: _____
 Client Contact: _____
 Client Phone: _____

APPENDIX I

Analytical Reports - Groundwater



Superior

Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Chronology

Laboratory Number 21373

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-1	05/17/96	05/17/96	05/22/96	05/23/96	CE221.24	01
MW-2	05/17/96	05/17/96	05/22/96	05/23/96	CE221.24	02
MW-3	05/17/96	05/17/96	05/22/96	05/23/96	CE221.24	03

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE221.24-03	Method Blank	MB	Water	05/22/96	05/23/96
CE221.24-04	Laboratory Spike	LS	Water	05/22/96	05/23/96
CE221.24-05	Laboratory Spike Duplicate	LSD	Water	05/22/96	05/23/96



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21373-01	MW-1	Water	1.0	-
21373-02	MW-2	Water	1.0	-
21373-03	MW-3	Water	1.0	-

RESULTS OF ANALYSIS

Compound	21373-01		21373-02		21373-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
bis(2-chloroethyl) ether	ND	10	ND	10	ND	10
aniline	ND	10	ND	10	ND	10
phenol	ND	10	ND	10	ND	10
2-chlorophenol	ND	10	ND	10	ND	10
1,3-dichlorobenzene	ND	10	ND	10	ND	10
1,4-dichlorobenzene	ND	10	ND	10	ND	10
1,2-dichlorobenzene	ND	10	ND	10	ND	10
benzyl alcohol	ND	10	ND	10	ND	10
bis-(2-chloroisopropyl) ether	ND	10	ND	10	ND	10
2-methylphenol	ND	10	ND	10	ND	10
hexachloroethane	ND	10	ND	10	ND	10
n-nitroso-di-n-propylamine	ND	10	ND	10	ND	10
4-methylphenol	ND	10	ND	10	ND	10
nitrobenzene	ND	10	ND	10	ND	10
isophorone	ND	10	ND	10	ND	10
2-nitrophenol	ND	10	ND	10	ND	10
2,4-dimethylphenol	ND	10	ND	10	ND	10
bis(2-chloroethoxy)methane	ND	10	ND	10	ND	10
2,4-dichlorophenol	ND	10	ND	10	ND	10
1,2,4-trichlorobenzene	ND	10	ND	10	ND	10
naphthalene	ND	10	390	50	88	10
benzoic acid	ND	10	ND	10	ND	10
4-chloroaniline	ND	10	ND	10	ND	10
hexachlorobutadiene	ND	10	ND	10	ND	10
4-chloro-3-methylphenol	ND	10	ND	10	ND	10
2-methyl-naphthalene	ND	10	60	10	64	10
hexachlorocyclopentadiene	ND	10	ND	10	ND	10
2,4,6-trichlorophenol	ND	10	ND	10	ND	10
2,4,5-trichlorophenol	ND	10	ND	10	ND	10
2-chloronaphthalene	ND	10	ND	10	ND	10
2-nitroaniline	ND	10	ND	10	ND	10



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21373-01	MW-1	Water	1.0	-
21373-02	MW-2	Water	1.0	-
21373-03	MW-3	Water	1.0	-

RESULTS OF ANALYSIS

Compound	21373-01		21373-02		21373-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
acenaphthylene	ND	10	ND	10	ND	10
dimethylphthlate	ND	10	ND	10	ND	10
2,6-dinitrotoluene	ND	10	ND	10	ND	10
Acenaphthene	ND	10	ND	10	ND	10
3-nitroaniline	ND	10	ND	10	ND	10
2,4-dinitrophenol	ND	10	ND	10	ND	10
dibenzofuran	ND	10	ND	10	ND	10
2,4-dinitrotoluene	ND	10	ND	10	ND	10
4-nitrophenol	ND	10	ND	10	ND	10
fluorene	ND	10	ND	10	ND	10
4-chlorophenyl-phenylether	ND	10	ND	10	ND	10
diethylphthlate	ND	10	ND	10	ND	10
4-nitroaniline	ND	10	ND	10	ND	10
4,6-dinitro-2-methylphenol	ND	10	ND	10	ND	10
n-nitrosodiphenylamine	ND	10	ND	10	ND	10
4-bromo-phenyl-phenylether	ND	10	ND	10	ND	10
hexachlorobenzene	ND	10	ND	10	ND	10
pentachlorophenol	ND	10	ND	10	ND	10
phenanthrene	ND	10	ND	10	ND	10
anthracene	ND	10	ND	10	ND	10
di-n-butylphthlate	ND	10	ND	10	ND	10
fluoranthene	ND	10	ND	10	ND	10
benzidine	ND	10	ND	10	ND	10
pyrene	ND	10	ND	10	ND	10
butylbenzylphthlate	ND	10	ND	10	ND	10
3,3'-dichlorobenzidine	ND	10	ND	10	ND	10
Benzo (a) Anthracene	ND	10	ND	10	ND	10
chrysene	ND	10	ND	10	ND	10
bis(2-ethylhexyl)phthalate	ND	10	ND	10	ND	10
di-n-octylphthalate	ND	10	ND	10	ND	10
benzo (b,k) fluoranthene	ND	10	ND	10	ND	10



Superior

Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21373-01	MW-1	Water	1.0	-
21373-02	MW-2	Water	1.0	-
21373-03	MW-3	Water	1.0	-

RESULTS OF ANALYSIS

Compound	21373-01		21373-02		21373-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
9H-Carbazole	ND	10	ND	10	ND	10
Benzo(a) Pyrene	ND	10	ND	10	ND	10
Indeno(1,2,3) Pyrene	ND	10	ND	10	ND	10
dibenzo[a,h]anthracene	ND	10	ND	10	ND	10
Benzo(g,h,i)Perylene	ND	10	ND	10	ND	10

>> Surrogate Recoveries (%) <<

2-fluorophenol	36	22	34
phenol-d5	29	30	28
nitrobenzene-d5	73	67	60
2-fluorobiphenyl	63	75	62
2,4,6-tribromophenol	71	77	69
terphenyl-d14	75	67	62



Superior

Analytical Laboratory

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21373

Method Blank(s)

CE221.24-03

Conc. RL

ug/L

bis(2-chloroethyl)ether	ND	10
aniline	ND	10
phenol	ND	10
2-chlorophenol	ND	10
1,3-dichlorobenzene	ND	10
1,4-dichlorobenzene	ND	10
1,2-dichlorobenzene	ND	10
benzyl alcohol	ND	10
bis-(2-chloroisopropyl)ether	ND	10
2-methylphenol	ND	10
hexachloroethane	ND	10
n-nitroso-di-n-propylamine	ND	10
4-methylphenol	ND	10
nitrobenzene	ND	10
isophorone	ND	10
2-nitrophenol	ND	10
2,4-dimethylphenol	ND	10
bis(2-chloroethoxy)methane	ND	10
2,4-dichlorophenol	ND	10
1,2,4-trichlorobenzene	ND	10
naphthalene	ND	10
benzoic acid	ND	10
4-chloroaniline	ND	10
hexachlorobutadiene	ND	10
4-chloro-3-methylphenol	ND	10
2-methyl-naphthalene	ND	10
hexachlorocyclopentadiene	ND	10
2,4,6-trichlorophenol	ND	10
2,4,5-trichlorophenol	ND	10
2-chloronaphthalene	ND	10
2-nitroaniline	ND	10
acenaphthylene	ND	10
dimethylphthlate	ND	10
2,6-dinitrotoluene	ND	10
Acenaphthene	ND	10
3-nitroaniline	ND	10
2,4-dinitrophenol	ND	10



Superior

Analytical Laboratory

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21373
Method Blank(s)

CE221.24-03
Conc. RL
ug/L

dibenzofuran	ND	10
2,4-dinitrotoluene	ND	10
4-nitrophenol	ND	10
fluorene	ND	10
4-chlorophenyl-phenylether	ND	10
diethylphthlate	ND	10
4-nitroaniline	ND	10
4,6-dinitro-2-methylphenol	ND	10
n-nitrosodiphenylamine	ND	10
4-bromo-phenyl-phenylether	ND	10
hexachlorobenzene	ND	10
pentachlorophenol	ND	10
phenanthrene	ND	10
anthracene	ND	10
di-n-butylphthlate	ND	10
fluoranthene	ND	10
benzidine	ND	10
pyrene	ND	10
butylbenzylphthlate	ND	10
3,3'-dichlorobenzidine	ND	10
Benzo(a)Anthracene	ND	10
chrysene	ND	10
bis(2-ethylhexyl)phthalate	ND	10
di-n-octylphthalate	ND	10
benzo(b,k)fluoranthene	ND	10
9H-Carbazole	ND	10
Benzo(a)Pyrene	ND	10
Indeno(1,2,3)Pyrene	ND	10
dibenzo[a,h]anthracene	ND	10
Benzo(g,h,i)Perylene	ND	10

>> Surrogate Recoveries (%) <<

2-fluorophenol	35
phenol-d5	16
nitrobenzene-d5	76
2-fluorobiphenyl	73
2,4,6-tribromophenol	49



Superior

Analytical Laboratory

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21373

Method Blank(s)

CE221.24-03

Conc. RL

ug/L

terphenyl-d14

80



Superior

Analytical Laboratory

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21373

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) CE221.24 04 / 05 - Laboratory Control Spikes						
phenol		100	32.4/32.6	32/33	12-110	3
2-chlorophenol		100	71.2/75.7	71/76	27-123	7
1,4-dichlorobenzene		50	34.3/38.2	69/76	36-97	10
n-nitroso-di-n-propylamine		50	42.7/41.9	85/84	41-116	1
1,2,4-trichlorobenzene		50	36.3/37.2	73/74	39-98	1
4-chloro-3-methylphenol		100	73.5/71.0	74/71	23-97	4
Acenaphthene		50	37.6/34.7	75/69	46-118	8
2,4-dinitrotoluene		50	46.1/44.2	92/88	24-104	4
4-nitrophenol		100	20.3/22.5	20/23	10-80	14
pentachlorophenol		100	27.4/22.4	27/22	9-103	20
pyrene		50	25.7/26.3	51/53	26-127	4
>> Surrogate Recoveries (%) <<						
2-fluorophenol				37/37	21-110	
phenol-d5				13/12	10-110	
nitrobenzene-d5				84/81	35-114	
2-fluorobiphenyl				76/76	43-116	
2,4,6-tribromophenol				59/62	10-123	
terphenyl-d14				75/77	33-141	

Definitions:

- ND = Not Detected
- RL = Reporting Limit
- NA = Not Analysed
- RPD = Relative Percent Difference
- ug/L = parts per billion (ppb)
- mg/L = parts per million (ppm)

- ug/kg = parts per billion (ppb)
- mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

RECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 21373

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-1	05/17/96	05/17/96	05/22/96	05/22/96	CE221.08	01
MW-2	05/17/96	05/17/96	05/22/96	05/22/96	CE221.08	02
MW-3	05/17/96	05/17/96	05/22/96	05/22/96	CE221.08	03

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE221.08-02	Method Blank	MB	Water	05/22/96	05/22/96
CE221.08-06	Laboratory Spike	LS	Water	05/22/96	05/22/96
CE221.08-07	2606D	MS 21384-01	Water	05/22/96	05/22/96
CE221.08-08	2606D	MSD 21384-01	Water	05/22/96	05/22/96



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SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21373-01	MW-1	Water	1.0	-
21373-02	MW-2	Water	1.0	-
21373-03	MW-3	Water	1.0	-

RESULTS OF ANALYSIS

Compound	21373-01		21373-02		21373-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
Chloromethane	ND	0.5	ND	0.5	ND	0.5
Vinyl Chloride	ND	0.5	ND	0.5	ND	0.5
Bromomethane	ND	0.5	ND	0.5	ND	0.5
Chloroethane	ND	0.5	ND	0.5	ND	0.5
Trichlorofluoromethane	ND	0.5	ND	0.5	ND	0.5
1,1-Dichloroethene	ND	0.5	ND	0.5	ND	0.5
Dichloromethane	ND	0.5	3.1	0.5	ND	0.5
t-1,2-Dichloroethene	ND	0.5	ND	0.5	ND	0.5
1,1-Dichloroethane	ND	0.5	ND	0.5	ND	0.5
c-1,2-Dichloroethene	2.8	0.5	ND	0.5	ND	0.5
Chloroform	ND	0.5	ND	0.5	ND	0.5
1,1,1-Trichloroethane	ND	0.5	ND	0.5	ND	0.5
Carbon tetrachloride	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ND	0.5	2.7	0.5	ND	0.5
Trichloroethene	4.5	0.5	0.8	0.5	ND	0.5
c-1,3-Dichloropropene	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloropropane	ND	0.5	ND	0.5	ND	0.5
t-1,3-Dichloropropene	ND	0.5	ND	0.5	ND	0.5
Bromodichloromethane	ND	0.5	ND	0.5	ND	0.5
1,1,2-Trichloroethane	ND	0.5	ND	0.5	ND	0.5
Tetrachloroethene	4.8	0.5	0.7	0.5	ND	0.5
Dibromochloromethane	ND	0.5	ND	0.5	ND	0.5
Chlorobenzene	ND	0.5	ND	0.5	ND	0.5
Bromoform	ND	0.5	ND	0.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5	ND	0.5
1,3-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5
1,2-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5
1,4-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5
>> Surrogate Recoveries (%) <<						
Bromochloromethane	90		97		95	



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Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 21373

Method Blank(s)

CE221.08-02

Conc. RL

ug/L

Chloromethane	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	0.5
Chloroethane	ND	0.5
Trichlorofluoromethane	ND	0.5
1,1-Dichloroethene	ND	0.5
Dichloromethane	ND	0.5
t-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
c-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
c-1,3-Dichloropropene	ND	0.5
1,2-Dichloropropane	ND	0.5
t-1,3-Dichloropropene	ND	0.5
Bromodichloromethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5

>> Surrogate Recoveries (%) <<

Bromochloromethane 92



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Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 21373

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
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For Water Matrix (ug/L)

CE221.08 06 / - Laboratory Control Spikes

1,1-Dichloroethene		20	23	115	50-189	
Trichloroethene		20	24	120	53-161	
Chlorobenzene		20	24	120	57-171	

>> Surrogate Recoveries (%) <<

Bromochloromethane				90	50-125	
--------------------	--	--	--	----	--------	--

For Water Matrix (ug/L)

CE221.08 07 / 08 - Sample Spiked: 21384 - 01

1,1-Dichloroethene	ND	20	20/21	100/105	50-189	5
Trichloroethene	ND	20	21/22	105/110	53-161	5
Chlorobenzene	ND	20	22/22	110/110	57-171	0

>> Surrogate Recoveries (%) <<

Bromochloromethane				99/95	50-125	
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Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

Analysis for CAM 17 Dissolved Metals
California Administration Code Title 22, Paragraph 66700 & EPA
Methods SW-846 6010 & 7000 Series

Chronology

Laboratory Number 21373

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-1	05/17/96	05/17/96	05/22/96	05/22/96	CE221.12 CE202.44	01
MW-2	05/17/96	05/17/96	05/22/96	05/22/96	CE221.12 CE202.44	02
MW-3	05/17/96	05/17/96	05/22/96	05/22/96	CE221.12 CE202.44	03

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE221.12-01	Method Blank	MB	Water	05/22/96	05/22/96
CE221.12-02	Laboratory Spike	LS	Water	05/22/96	05/22/96
CE221.12-03	Laboratory Spike Duplicate	LSD	Water	05/22/96	05/22/96
CE221.12-04	WEST GATE	MS 21356-01	Water	05/22/96	05/22/96
CE221.12-05	WEST GATE	MSD 21356-01	Water	05/22/96	05/22/96
CE202.44-01	Method Blank	MB	Water	05/20/96	05/21/96
CE202.44-02	Laboratory Spike	LS	Water	05/20/96	05/21/96
CE202.44-03	Laboratory Spike Duplicate	LSD	Water	05/20/96	05/21/96
CE202.44-04	#1	MS 21359-01	Water	05/20/96	05/21/96
CE202.44-05	#1	MSD 21359-01	Water	05/20/96	05/21/96



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Project 70074-001-01
Reported on May 24, 1996

Analysis for CAM 17 Dissolved Metals
California Administration Code Title 22, Paragraph 66700 & EPA
Methods SW-846 6010 & 7000 Series

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21373-01	MW-1	Water	1.0	-
21373-02	MW-2	Water	1.0	-
21373-03	MW-3	Water	1.0	-

RESULTS OF ANALYSIS

Compound	21373-01		21373-02		21373-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	mg/L		mg/L		mg/L	
Mercury (SW-846 7470)	ND	0.001	ND	0.001	ND	0.001
Antimony (SW-846 6010)	ND	0.1	ND	0.1	ND	0.1
Arsenic (SW-846 6010)	ND	0.1	ND	0.1	ND	0.1
Barium (SW-846 6010)	0.10	0.015	0.25	0.015	0.055	0.015
Beryllium (SW-846 6010)	ND	0.005	ND	0.005	ND	0.005
Cadmium (SW-846 6010)	ND	0.005	ND	0.005	ND	0.005
Chromium (SW-846 6010)	ND	0.01	ND	0.01	ND	0.01
Cobalt (SW-846 6010)	ND	0.01	ND	0.01	ND	0.01
Copper (SW-846 6010)	ND	0.02	ND	0.02	ND	0.02
Lead (SW-846 6010)	ND	0.05	ND	0.05	ND	0.05
Molybdenum (SW-846 6010)	ND	0.02	ND	0.02	ND	0.02
Nickel (SW-846 6010)	ND	0.02	ND	0.02	ND	0.02
Silver (SW-846 6010)	ND	0.02	ND	0.02	ND	0.02
Selenium (SW-846 6010)	ND	0.1	ND	0.1	ND	0.1
Thallium (SW-846 6010)	ND	0.2	ND	0.2	ND	0.2
Vanadium (SW-846 6010)	ND	0.03	ND	0.03	ND	0.03
Zinc (SW-846 6010)	ND	0.02	ND	0.02	ND	0.02



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Analysis for CAM 17 Dissolved Metals
California Administration Code Title 22, Paragraph 66700 & EPA
Methods SW-846 6010 & 7000 Series

Quality Assurance and Control Data

Laboratory Number: 21373

Method Blank(s)

	CE221.12-01	CE202.44-01
	Conc. RL	Conc. RL
	mg/L	mg/L
Mercury (SW-846 7470)	ND	0.001
Antimony (SW-846 6010)		ND 0.1
Arsenic (SW-846 6010)		ND 0.1
Barium (SW-846 6010)		ND 0.015
Beryllium (SW-846 6010)		ND 0.005
Cadmium (SW-846 6010)		ND 0.005
Chromium (SW-846 6010)		ND 0.01
Cobalt (SW-846 6010)		ND 0.01
Copper (SW-846 6010)		ND 0.02
Lead (SW-846 6010)		ND 0.05
Molybdenum (SW-846 6010)		ND 0.02
Nickel (SW-846 6010)		ND 0.02
Silver (SW-846 6010)		ND 0.02
Selenium (SW-846 6010)		ND 0.1
Thallium (SW-846 6010)		ND 0.2
Vanadium (SW-846 6010)		ND 0.03
Zinc (SW-846 6010)		ND 0.02



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Analytical Laboratory

Analysis for CAM 17 Dissolved Metals
 California Administration Code Title 22, Paragraph 66700 & EPA
 Methods SW-846 6010 & 7000 Series

Quality Assurance and Control Data

Laboratory Number: 21373

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (mg/L)						
CE221.12 02 / 03 - Laboratory Control Spikes						
Mercury (SW-846 7470)		0.02	0.021/0.021	105/105	75-125	0
For Water Matrix (mg/L)						
CE202.44 02 / 03 - Laboratory Control Spikes						
Antimony (SW-846 6010)		1	1.02/0.992	102/99	75-125	3
Arsenic (SW-846 6010)		1	0.986/0.968	99/97	75-125	2
Barium (SW-846 6010)		1	1.01/1.00	101/100	75-125	1
Beryllium (SW-846 6010)		1	0.957/0.980	96/98	75-125	2
Cadmium (SW-846 6010)		1	0.979/0.964	98/96	75-125	2
Chromium (SW-846 6010)		1	1.01/1.00	101/100	75-125	1
Cobalt (SW-846 6010)		1	1.02/1.00	102/100	75-125	2
Copper (SW-846 6010)		1	1.02/1.01	102/101	75-125	1
Lead (SW-846 6010)		1	1.00/0.982	100/98	75-125	2
Molybdenum (SW-846 6010)		1	0.997/1.01	100/101	75-125	1
Nickel (SW-846 6010)		1	1.02/1.02	102/102	75-125	0
Silver (SW-846 6010)		1	1.02/1.02	102/102	75-125	0
Selenium (SW-846 6010)		1	0.982/0.957	98/96	75-125	2
Thallium (SW-846 6010)		1	1.03/1.01	103/101	75-125	2
Vanadium (SW-846 6010)		1	1.02/1.01	102/101	75-125	1
Zinc (SW-846 6010)		1	1.00/0.967	100/97	75-125	3
For Water Matrix (mg/L)						
CE221.12 04 / 05 - Sample Spiked: 21356 - 01						
Mercury (SW-846 7470)	0.003	0.02	0.023/0.024	100/105	75-125	5



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Analysis for CAM 17 Dissolved Metals
 California Administration Code Title 22, Paragraph 66700 & EPA
 Methods SW-846 6010 & 7000 Series

Quality Assurance and Control Data

Laboratory Number: 21373

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (mg/L)						
CE202.44 04 / 05 - Sample Spiked: 21359 - 01						
Antimony (SW-846 6010)	ND	1	0.979/0.984	98/98	75-125	0
Arsenic (SW-846 6010)	ND	1	0.952/0.942	95/94	75-125	1
Barium (SW-846 6010)	0.0763	1	1.03/1.04	95/96	75-125	1
Beryllium (SW-846 6010)	ND	1	0.927/0.931	93/93	75-125	0
Cadmium (SW-846 6010)	ND	1	0.936/0.948	94/95	75-125	1
Chromium (SW-846 6010)	ND	1	0.939/0.943	94/94	75-125	0
Cobalt (SW-846 6010)	ND	1	0.937/0.940	94/94	75-125	0
Copper (SW-846 6010)	ND	1	0.976/0.981	98/98	75-125	0
Lead (SW-846 6010)	ND	1	0.934/0.938	93/94	75-125	1
Molybdenum (SW-846 6010)	ND	1	0.942/0.946	94/95	75-125	1
Nickel (SW-846 6010)	ND	1	0.943/0.955	94/96	75-125	2
Silver (SW-846 6010)	ND	1	0.952/0.976	95/98	75-125	3
Selenium (SW-846 6010)	ND	1	0.937/0.956	94/96	75-125	2
Thallium (SW-846 6010)	ND	1	0.939/0.946	94/95	75-125	1
Vanadium (SW-846 6010)	ND	1	0.963/0.970	96/97	75-125	1
Zinc (SW-846 6010)	ND	1	0.935/0.956	94/96	75-125	2

Samples were not filtered and preserved within 24 hours from collection time.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-07
Reported on May 24, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Chronology

Laboratory Number 21373

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-1	05/17/96	05/17/96	05/20/96	05/21/96	CE201.21	01
MW-2	05/17/96	05/17/96	05/20/96	05/21/96	CE201.21	02
MW-3	05/17/96	05/17/96	05/20/96	05/21/96	CE201.21	03

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE201.21-02	Laboratory Spike	LS	Water	05/20/96	05/20/96
CE201.21-03	Laboratory Spike Duplicate	LSD	Water	05/20/96	05/20/96
CE201.21-01	Method Blank	MB	Water	05/20/96	05/20/96



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21373-01	MW-1	Water	1.0	-
21373-02	MW-2	Water	5.0	-
21373-03	MW-3	Water	5.0	-

RESULTS OF ANALYSIS

Compound	21373-01		21373-02		21373-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
Stoddard	ND	50	ND	250	ND	250
Kerosene	ND	50	ND	250	ND	250
Jet Fuel	ND	50	ND	250	ND	250
Mineral Spirits	ND	50	ND	250	ND	250
Diesel:	ND	50	ND	250	ND	250
Bunker Oil	ND	500	ND	2500	ND	2500
Motor Oil	ND	500	ND	2500	ND	2500
Unknown Hydrocarbons	220**	50	3900**	250	2900**	250

>> Surrogate Recoveries (%) <<

Tetracosane	86	124	130
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Analytical Laboratory

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Quality Assurance and Control Data

Laboratory Number: 21373
Method Blank(s)

CE201.21-01
Conc. RL
ug/L

Stoddard	ND	50
Kerosene	ND	50
Jet Fuel	ND	50
Mineral Spirits	ND	50
Diesel:	ND	50
Bunker Oil	ND	500
Motor Oil	ND	500
Unknown Hydrocarbons	ND	50

>> Surrogate Recoveries (%) <<
Tetracosane 92



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Analytical Laboratory

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Quality Assurance and Control Data

Laboratory Number: 21373

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) CE201.21 02 / 03 - Laboratory Control Spikes						
Diesel:		1000	1000/980	100/98	50-150	2
>> Surrogate Recoveries (%) << Tetracosane				89/88	50-150	

** - Lighter hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint. Possible gasoline.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 21373

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-1	05/17/96	05/17/96	05/22/96	05/22/96	CE221.05	01
MW-2	05/17/96	05/17/96	05/23/96	05/23/96	CE231.05	02
MW-3	05/17/96	05/17/96	05/23/96	05/23/96	CE231.05	03

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
CE221.05-02	Laboratory Spike	LS		Water	05/23/96	05/23/96
CE221.05-06	MW-2	MS	21373-02	Water	05/23/96	05/23/96
CE221.05-07	MW-2	MSD	21373-02	Water	05/23/96	05/23/96
CE231.05-02	Laboratory Spike	LS		Water	05/24/96	05/24/96
CE231.05-06	1327	MS	21393-01	Water	05/24/96	05/24/96
CE231.05-07	1327	MSD	21393-01	Water	05/24/96	05/24/96
CE221.05-01	Method Blank	MB		Water	05/22/96	05/22/96
CE231.05-01	Method Blank	MB		Water	05/23/96	05/23/96
CE221.05-03	Laboratory Spike	LS		Water	05/23/96	05/23/96
CE221.05-04	MW-1	MS	21373-01	Water	05/23/96	05/23/96
CE221.05-05	MW-1	MSD	21373-01	Water	05/23/96	05/23/96
CE231.05-03	Laboratory Spike	LS		Water	05/24/96	05/24/96
CE231.05-04	1327	MS	21393-01	Water	05/24/96	05/24/96
CE231.05-05	1327	MSD	21393-01	Water	05/24/96	05/24/96



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 24, 1996

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21373-01	MW-1	Water	1.0	-
21373-02	MW-2	Water	50.0	-
21373-03	MW-3	Water	10.0	-

RESULTS OF ANALYSIS

Compound	21373-01		21373-02		21373-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
Gasoline_Range	1100	50	23000	2500	6700	500
Benzene	ND	0.5	900	25	140	5.0
Toluene	8.7	0.5	330	25	45	5.0
Ethyl Benzene	7.4	0.5	650	25	210	5.0
Total Xylenes	17	0.5	1500	25	180	5.0
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)	145		128		119	



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Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21373
Method Blank(s)

	CE221.05-01		CE231.05-01	
	Conc.	RL	Conc.	RL
	ug/L		ug/L	

Gasoline_Range	ND	50	ND	50
Benzene	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	ND	0.5

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)	102	107
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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21373

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CE221.05 02 / - Laboratory Control Spikes						
Benzene		20	24	120	65-125	
Toluene		20	25	125	65-125	
Ethyl Benzene		20	22	110	65-125	
Total Xylenes		60	68	113	65-125	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				102	50-150	
For Water Matrix (ug/L)						
CE231.05 02 / - Laboratory Control Spikes						
Benzene		20	24	120	65-125	
Toluene		20	23	115	65-125	
Ethyl Benzene		20	23	115	65-125	
Total Xylenes		60	67	112	65-125	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				105	50-150	
For Water Matrix (ug/L)						
CE221.05 03 / - Laboratory Control Spikes						
Gasoline_Range		2000	2100	105	65-135	
For Water Matrix (ug/L)						
CE231.05 03 / - Laboratory Control Spikes						
Gasoline_Range		2000	2200	110	65-135	



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Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21373

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CE221.05 06 / 07 - Sample Spiked: 21373 - 02						
Benzene	ND	20	35CC/35CC	175/175	65-125	0
Toluene	9	20	34/34	125/125	65-125	0
Ethyl Benzene	7	20	29/29	110/110	65-125	0
Total Xylenes	17	60	80/81	105/107	65-125	2
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				154I/150	50-150	
For Water Matrix (ug/L)						
CE231.05 06 / 07 - Sample Spiked: 21393 - 01						
Benzene	ND	20	23/24	115/120	65-125	4
Toluene	ND	20	22/24	110/120	65-125	9
Ethyl Benzene	ND	20	22/22	110/110	65-125	0
Total Xylenes	ND	60	64/67	107/112	65-125	5
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				104/105	50-150	
For Water Matrix (ug/L)						
CE221.05 04 / 05 - Sample Spiked: 21373 - 01						
Gasoline_Range	1100	2000	3000/2800	95/85	65-135	11
For Water Matrix (ug/L)						
CE231.05 04 / 05 - Sample Spiked: 21393 - 01						
Gasoline_Range	ND	2000	2100/2100	105/105	65-135	0



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Narrative:

- CC - Matrix Spike Recoveries outside of control limits due to interfering hydrocarbons.
- I - The surrogate recovery was high due to the presence of interfering compounds in the sample.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)

21373

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: 1390 Willow Pass Rd, Suite 320
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Boyanon
 Location: 575 Pased Grande
San Lorenzo, CA

Project # 70074-001-01 Task # _____
 Project Manager Steve McCabe
 Laboratory Superior
 Turnaround Time Standard

Analysis Request

Sampler's Name Charles Malouan
 Sampler's Signature Charles Malouan

Sample ID	Date	Time	Matrix	HEP Hydrocarbon Scan	TPH (BTEX) WTPH-G 8015 (modified) 8020	TPH/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 609/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/Instructions	Number of Containers
MW-1	5-17	16:00	water	X	X				X	X						X	10
MW-2	5-17	16:30	water	X	X				X	X						X	10
MW-3	5-17	17:20	water	X	X				X	X						X	10

Please Initial: AE
 Samples stored in co. yes
 Appropriate containers yes
 Samples preserved yes
 VOA's without headspace yes
 Comments: T=15°C

Special Instructions/Comments:
 * Filter and preserve plastic liter for metals

Relinquished by:
 Sign Charles Malouan
 Print Charles Malouan
 Company SECOR
 Time 17:25 Date 5-17-96
 Relinquished by:
 Sign Roy Ferris
 Print Roy Ferris
 Company SAL
 Time 6:15 Date 5/17/96

Received by:
 Sign Roy Ferris
 Print Roy Ferris
 Company Superior
 Time 5:25 Date 5/17/96
 Received by:
 Sign Roy Ferris
 Print Roy Ferris
 Company SAL
 Time 6:15 Date 5/17/96

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____
 Client: _____
 Client Contact: _____
 Client Phone: _____



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 21327

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW3-5.5	05/10/96	05/10/96	05/18/96	05/18/96	CE181.07	01
MW2-5	05/10/96	05/10/96	05/18/96	05/18/96	CE181.07	03
MW2-12.5	05/10/96	05/10/96	05/18/96	05/18/96	CE181.07	05
MW1-7.5	05/10/96	05/10/96	05/18/96	05/18/96	CE181.07	08
MW1-10.5	05/10/96	05/10/96	05/18/96	05/18/96	CE181.07	09

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE181.07-01	Method Blank	MB	Soil	05/18/96	05/18/96
CE181.07-02	Laboratory Spike	LS	Soil	05/18/96	05/18/96
CE181.07-03	Laboratory Spike Duplicate	LSD	Soil	05/18/96	05/18/96
CE181.07-04	MW3-5.5	MS 21327-01	Soil	05/18/96	05/18/96
CE181.07-05	MW3-5.5	MSD 21327-01	Soil	05/18/96	05/18/96



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Project 70074-001-01
Reported on May 20, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21327-01	MW3-5.5	Soil	1.0	-
21327-03	MW2-5	Soil	1.0	-
21327-05	MW2-12.5	Soil	1.0	-
21327-08	MW1-7.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-01		21327-03		21327-05		21327-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Chloromethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl Chloride	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Bromomethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichlorofluoromethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1-Dichloroethene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dichloromethane	60	5.0	39	5.0	46	5.0	48	5.0
t-1,2-Dichloroethene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1-Dichloroethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
c-1,2-Dichloroethene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroform	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,1-Trichloroethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon tetrachloride	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichloroethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichloroethene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
c-1,3-Dichloropropene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichloropropane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
t-1,3-Dichloropropene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Bromodichloromethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,2-Trichloroethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Tetrachloroethene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dibromochloromethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chlorobenzene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Bromoform	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,3-Dichlorobenzene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichlorobenzene	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,4-Dichlorobenzene	ND	5.0	ND	5.0	ND	5.0	ND	5.0

>> Surrogate Recoveries (%) <<
Bromochloromethane

89

89

96

92



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Project 70074-001-01
Reported on May 20, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21327-09	MW1-10.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-09 Conc. RL ug/Kg
Chloromethane	ND 5.0
Vinyl Chloride	ND 5.0
Bromomethane	ND 5.0
Chloroethane	ND 5.0
Trichlorofluoromethane	ND 5.0
1,1-Dichloroethene	ND 5.0
Dichloromethane	62 5.0
t-1,2-Dichloroethene	ND 5.0
1,1-Dichloroethane	ND 5.0
c-1,2-Dichloroethene	ND 5.0
Chloroform	ND 5.0
1,1,1-Trichloroethane	ND 5.0
Carbon tetrachloride	ND 5.0
1,2-Dichloroethane	ND 5.0
Trichloroethene	ND 5.0
c-1,3-Dichloropropene	ND 5.0
1,2-Dichloropropane	ND 5.0
t-1,3-Dichloropropene	ND 5.0
Bromodichloromethane	ND 5.0
1,1,2-Trichloroethane	ND 5.0
Tetrachloroethene	ND 5.0
Dibromochloromethane	ND 5.0
Chlorobenzene	ND 5.0
Bromoform	ND 5.0
1,1,2,2-Tetrachloroethane	ND 5.0
1,3-Dichlorobenzene	ND 5.0
1,2-Dichlorobenzene	ND 5.0
1,4-Dichlorobenzene	ND 5.0

>> Surrogate Recoveries (%) <<
Bromochloromethane 100



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Analytical Laboratory

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 21327

Method Blank(s)

CE181.07-01

Conc. RL

ug/Kg

Chloromethane	ND	5.0
Vinyl Chloride	ND	5.0
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
Dichloromethane	ND	5.0
t-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
c-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
c-1,3-Dichloropropene	ND	5.0
1,2-Dichloropropane	ND	5.0
t-1,3-Dichloropropene	ND	5.0
Bromodichloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	5.0
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0

>> Surrogate Recoveries (%) <<

Bromochloromethane 86



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Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Soil Matrix (ug/Kg)

CE181.07 02 / 03 - Laboratory Control Spikes

1,1-Dichloroethene		100	100/95	100/95	44-184	5
Trichloroethene		100	100/100	100/100	55-141	0
Chlorobenzene		100	110/98	110/98	63-158	12

>> Surrogate Recoveries (%) <<

Bromochloromethane				82/94	50-125	
--------------------	--	--	--	-------	--------	--

For Soil Matrix (ug/Kg)

CE181.07 04 / 05 - Sample Spiked: 21327 - 01

1,1-Dichloroethene	ND	100	140/150	140/150	44-184	7
Trichloroethene	ND	100	130/140	130/140	55-141	7
Chlorobenzene	ND	100	130/130	130/130	63-158	0

>> Surrogate Recoveries (%) <<

Bromochloromethane				76/79	50-125	
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Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-0
Reported on May 20, 1996

Analysis for CAM 17 Metals
California Administration Code Title 22, Paragraph 66700 & EPA
Methods SW-846 6010 & 7000 Series

Chronology

Laboratory Number 21327

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW3-5.5	05/10/96	05/10/96	05/16/96	05/16/96	CE162.12 CE132.44	01
MW2-5	05/10/96	05/10/96	05/16/96	05/16/96	CE162.12 CE132.44	03
MW2-12.5	05/10/96	05/10/96	05/16/96	05/16/96	CE162.12 CE132.44	05
MW1-7.5	05/10/96	05/10/96	05/16/96	05/16/96	CE162.12 CE132.44	08
MW1-10.5	05/10/96	05/10/96	05/16/96	05/16/96	CE162.12 CE132.44	09

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE162.12-01	Method Blank	MB	Soil	05/16/96	05/16/96
CE162.12-02	Laboratory Spike	LS	Soil	05/16/96	05/16/96
CE162.12-03	Laboratory Spike Duplicate	LSD	Soil	05/16/96	05/16/96
CE162.12-04	MW3-5.5	MS 21327-01	Soil	05/16/96	05/16/96
CE162.12-05	MW3-5.5	MSD 21327-01	Soil	05/16/96	05/16/96
CE132.44-01	Method Blank	MB	Soil	05/13/96	05/14/96
CE132.44-02	Laboratory Spike	LS	Soil	05/13/96	05/14/96
CE132.44-03	Laboratory Spike Duplicate	LSD	Soil	05/13/96	05/14/96
CE132.44-04	MW2-12.5	MS 21327-05	Soil	05/13/96	05/14/96
CE132.44-05	MW2-12.5	MSD 21327-05	Soil	05/13/96	05/14/96



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Project 70074-001-01
Reported on May 20, 1996

Analysis for CAM 17 Metals
California Administration Code Title 22, Paragraph 66700 & EPA
Methods SW-846 6010 & 7000 Series

Table with 5 columns: LAB ID, Sample ID, Matrix, Dil. Factor, Moisture. Rows include samples 21327-01, 21327-03, 21327-05, and 21327-08.

RESULTS OF ANALYSIS

Table with 10 columns: Compound, 21327-01 (Conc., RL), 21327-03 (Conc., RL), 21327-05 (Conc., RL), 21327-08 (Conc., RL). Lists various metals like Mercury, Antimony, Arsenic, etc.



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Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Analysis for CAM 17 Metals
California Administration Code Title 22, Paragraph 66700 & EPA
Methods SW-846 6010 & 7000 Series

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21327-09	MW1-10.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-09 Conc. RL mg/kg
Mercury (SW-846 7471)	0.08 0.05
Antimony (SW-846 6010)	ND+ 25
Arsenic (SW-846 6010)	ND+ 25
Barium (SW-846 6010)	210+ 3.8
Beryllium (SW-846 6010)	ND+ 1.3
Cadmium (SW-846 6010)	ND+ 1.3
Chromium (SW-846 6010)	37+ 2.5
Cobalt (SW-846 6010)	13+ 2.5
Copper (SW-846 6010)	29+ 5.0
Lead (SW-846 6010)	ND+ 13
Molybdenum (SW-846 6010)	ND+ 5.0
Nickel (SW-846 6010)	56+ 5.0
Silver (SW-846 6010)	ND+ 5.0
Selenium (SW-846 6010)	ND+ 25
Thallium (SW-846 6010)	ND+ 50
Vanadium (SW-846 6010)	44+ 7.5
Zinc (SW-846 6010)	67+ 5.0



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Analytical Laboratory

Analysis for CAM 17 Metals
California Administration Code Title 22, Paragraph 66700 & EPA
Methods SW-846 6010 & 7000 Series

Quality Assurance and Control Data

Laboratory Number: 21327
Method Blank(s)

	CE162.12-01	CE132.44-01
	Conc. RL	Conc. RL
	mg/kg	PPM
Mercury (SW-846 7471)	ND 0.5	
Antimony (SW-846 6010)		ND 5.0
Arsenic (SW-846 6010)		ND 5.0
Barium (SW-846 6010)		ND 0.75
Beryllium (SW-846 6010)		ND 0.25
Cadmium (SW-846 6010)		ND 0.25
Chromium (SW-846 6010)		ND 0.5
Cobalt (SW-846 6010)		ND 0.5
Copper (SW-846 6010)		ND 1.0
Lead (SW-846 6010)		ND 2.5
Molybdenum (SW-846 6010)		ND 1.0
Nickel (SW-846 6010)		ND 1.0
Silver (SW-846 6010)		ND 1.0
Selenium (SW-846 6010)		ND 5.0
Thallium (SW-846 6010)		ND 10
Vanadium (SW-846 6010)		ND 1.5
Zinc (SW-846 6010)		ND 1.0



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Analytical Laboratory

Analysis for CAM 17 Metals
 California Administration Code Title 22, Paragraph 66700 & EPA
 Methods SW-846 6010 & 7000 Series

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
CE162.12 02 / 03 - Laboratory Control Spikes						
Mercury (SW-846 7471)		1.00	1.00/1.01	100/101	75-125	1
For Soil Matrix (mg/kg)						
CE132.44 02 / 03 - Laboratory Control Spikes						
Antimony (SW-846 6010)		50	47.1/47.3	94/95	75-125	1
Arsenic (SW-846 6010)		50	46.8/46.9	94/94	75-125	0
Barium (SW-846 6010)		50	47.2/47.2	94/94	75-125	0
Beryllium (SW-846 6010)		50	46.1/46.3	92/93	75-125	1
Cadmium (SW-846 6010)		50	47.2/47.7	94/95	75-125	1
Chromium (SW-846 6010)		50	48.2/48.6	97/97	75-125	0
Cobalt (SW-846 6010)		50	48.0/48.4	96/97	75-125	1
Copper (SW-846 6010)		50	48.0/48.1	96/96	75-125	0
Lead (SW-846 6010)		50	48.2/48.3	97/97	75-125	0
Molybdenum (SW-846 6010)		50	46.3/46.6	93/93	75-125	0
Nickel (SW-846 6010)		50	49.2/49.2	98/98	75-125	0
Silver (SW-846 6010)		50	49.2/49.7	98/99	75-125	1
Selenium (SW-846 6010)		50	44.6/45.4	89/91	75-125	2
Thallium (SW-846 6010)		50	48.8/48.6	98/97	75-125	1
Vanadium (SW-846 6010)		50	48.2/48.3	96/97	75-125	1
Zinc (SW-846 6010)		50	47.2/47.6	95/95	75-125	0
For Soil Matrix (mg/kg)						
CE162.12 04 / 05 - Sample Spiked: 21327 - 01						
Mercury (SW-846 7471)	0.08	1.0	1.06/1.14	98/106	75-125	8
For Soil Matrix (mg/kg)						
CE132.44 04 / 05 - Sample Spiked: 21327 - 05						
Antimony (SW-846 6010)	ND	50	30.9R/29.8	62/60	75-125	3



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Analysis for CAM 17 Metals
California Administration Code Title 22, Paragraph 66700 & EPA
Methods SW-846 6010 & 7000 Series

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
Arsenic (SW-846 6010)	ND	50	58.0/62.6	116/125	75-125	7
Barium (SW-846 6010)	219	50	277/261	116/84	75-125	32
Beryllium (SW-846 6010)	ND	50	49.4/48.3	99/97	75-125	2
Cadmium (SW-846 6010)	ND	50	51.6/50.3	103/101	75-125	2
Chromium (SW-846 6010)	35.7	50	90.0/87.7	109/104	75-125	5
Cobalt (SW-846 6010)	11.6	50	64.2/63.5	105/104	75-125	1
Copper (SW-846 6010)	24.7	50	77.4/75.7	105/102	75-125	3
Lead (SW-846 6010)	ND	50	63.9R/60.1	128/120	75-125	7
Molybdenum (SW-846 6010)	ND	50	46.4/45.1	93/90	75-125	3
Nickel (SW-846 6010)	54.8	50	111/108	112/106	75-125	6
Silver (SW-846 6010)	ND	50	52.0/50.9	104/102	75-125	2
Selenium (SW-846 6010)	ND	50	42.1/42.5	84/85	75-125	1
Thallium (SW-846 6010)	ND	50	46.5/40.9	93/82	75-125	13
Vanadium (SW-846 6010)	34.8	50	88.6/86.0	108/102	75-125	6
Zinc (SW-846 6010)	63.2	50	119/116	112/106	75-125	6



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Narrative:

+ - Raised Detection Limit Due To Matrix Interferences.

R - MS and/or MSD recoveries were out of control limits. LCS / LCSD recoveries were within acceptable limits.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



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SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Chronology

Laboratory Number 21327

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW3-5.5	05/10/96	05/10/96	05/15/96	05/16/96	CE151.24	01
MW2-5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.24	03
MW2-12.5	05/10/96	05/10/96	05/15/96	05/16/96	CE151.24	05
MW1-7.5	05/10/96	05/10/96	05/15/96	05/16/96	CE151.24	08
MW1-10.5	05/10/96	05/10/96	05/15/96	05/16/96	CE151.24	09

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE151.24-05	MW2-5	MS 21327-03	Soil	05/15/96	05/16/96
CE151.24-06	MW2-5	MSD 21327-03	Soil	05/15/96	05/16/96
CE151.24-09	Method Blank	MB	Soil	05/15/96	05/15/96
CE151.24-10	Laboratory Spike	LS	Soil	05/15/96	05/15/96
CE151.24-11	Laboratory Spike Duplicate	LSD	Soil	05/15/96	05/15/96



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Project 70074-001-0
Reported on May 20, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21327-01	MW3-5.5	Soil	1.0	-
21327-03	MW2-5	Soil	1.0	-
21327-05	MW2-12.5	Soil	1.0	-
21327-08	MW1-7.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-01		21327-03		21327-05		21327-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
bis(2-chloroethyl) ether	ND	300	ND	300	ND	300	ND	300
aniline	ND	300	ND	300	ND	300	ND	300
phenol	ND	300	ND	300	ND	300	ND	300
2-chlorophenol	ND	300	ND	300	ND	300	ND	300
1,3-dichlorobenzene	ND	300	ND	300	ND	300	ND	300
1,4-dichlorobenzene	ND	300	ND	300	ND	300	ND	300
1,2-dichlorobenzene	ND	300	ND	300	ND	300	ND	300
benzyl alcohol	ND	300	ND	300	ND	300	ND	300
bis-(2-chloroisopropyl) ether	ND	300	ND	300	ND	300	ND	300
2-methylphenol	ND	300	ND	300	ND	300	ND	300
hexachloroethane	ND	300	ND	300	ND	300	ND	300
n-nitroso-di-n-propylamine	ND	300	ND	300	ND	300	ND	300
4-methylphenol	ND	300	ND	300	ND	300	ND	300
nitrobenzene	ND	300	ND	300	ND	300	ND	300
isophorone	ND	300	ND	300	ND	300	ND	300
2-nitrophenol	ND	300	ND	300	ND	300	ND	300
2,4-dimethylphenol	ND	300	ND	300	ND	300	ND	300
bis(2-chloroethoxy)methane	ND	300	ND	300	ND	300	ND	300
2,4-dichlorophenol	ND	300	ND	300	ND	300	ND	300
1,2,4-trichlorobenzene	ND	300	ND	300	ND	300	ND	300
naphthalene	ND	300	ND	300	550	300	ND	300
benzoic acid	ND	300	ND	300	ND	300	ND	300
4-chloroaniline	ND	300	ND	300	ND	300	ND	300
hexachlorobutadiene	ND	300	ND	300	ND	300	ND	300
4-chloro-3-methylphenol	ND	300	ND	300	ND	300	ND	300
2-methyl-naphthalene	ND	300	ND	300	ND	300	ND	300
hexachlorocyclopentadiene	ND	300	ND	300	ND	300	ND	300
2,4,6-trichlorophenol	ND	300	ND	300	ND	300	ND	300
2,4,5-trichlorophenol	ND	300	ND	300	ND	300	ND	300
2-chloronaphthalene	ND	300	ND	300	ND	300	ND	300
2-nitroaniline	ND	300	ND	300	ND	300	ND	300



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Project 70074-001-01
Reported on May 20, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21327-01	MW3-5.5	Soil	1.0	-
21327-03	MW2-5	Soil	1.0	-
21327-05	MW2-12.5	Soil	1.0	-
21327-08	MW1-7.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-01		21327-03		21327-05		21327-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
acenaphthylene	ND	300	ND	300	ND	300	ND	300
dimethylphthlate	ND	300	ND	300	ND	300	ND	300
2,6-dinitrotoluene	ND	300	ND	300	ND	300	ND	300
Acenaphthene	ND	300	ND	300	ND	300	ND	300
3-nitroaniline	ND	300	ND	300	ND	300	ND	300
2,4-dinitrophenol	ND	300	ND	300	ND	300	ND	300
dibenzofuran	ND	300	ND	300	ND	300	ND	300
2,4-dinitrotoluene	ND	300	ND	300	ND	300	ND	300
4-nitrophenol	ND	300	ND	300	ND	300	ND	300
fluorene	ND	300	ND	300	ND	300	ND	300
4-chlorophenyl-phenylether	ND	300	ND	300	ND	300	ND	300
diethylphthlate	ND	300	ND	300	ND	300	ND	300
4-nitroaniline	ND	300	ND	300	ND	300	ND	300
4,6-dinitro-2-methylphenol	ND	300	ND	300	ND	300	ND	300
n-nitrosodiphenylamine	ND	300	ND	300	ND	300	ND	300
4-bromo-phenyl-phenylether	ND	300	ND	300	ND	300	ND	300
hexachlorobenzene	ND	300	ND	300	ND	300	ND	300
pentachlorophenol	ND	300	ND	300	ND	300	ND	300
phenanthrene	ND	300	ND	300	ND	300	ND	300
anthracene	ND	300	ND	300	ND	300	ND	300
di-n-butylphthlate	ND	300	ND	300	ND	300	ND	300
fluoranthene	ND	300	ND	300	ND	300	ND	300
benzidine	ND	300	ND	300	ND	300	ND	300
pyrene	ND	300	ND	300	ND	300	ND	300
butylbenzylphthlate	ND	300	ND	300	ND	300	ND	300
3,3'-dichlorobenzidine	ND	300	ND	300	ND	300	ND	300
Benzo(a)Anthracene	ND	300	ND	300	ND	300	ND	300
chrysene	ND	300	ND	300	ND	300	ND	300
bis(2-ethylhexyl)phthalate	ND	300	ND	300	ND	300	ND	300
di-n-octylphthalate	ND	300	ND	300	ND	300	ND	300
benzo(b,k)fluoranthene	ND	300	ND	300	ND	300	ND	300



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Project 70074-001-01
Reported on May 20, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21327-01	MW3-5.5	Soil	1.0	-
21327-03	MW2-5	Soil	1.0	-
21327-05	MW2-12.5	Soil	1.0	-
21327-08	MW1-7.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-01		21327-03		21327-05		21327-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Benzo (a) Pyrene	ND	300	ND	300	ND	300	ND	300
Indeno (1,2,3) Pyrene	ND	300	ND	300	ND	300	ND	300
dibenzo [a, h] anthracene	ND	300	ND	300	ND	300	ND	300
9H-Carbazole	ND	300	ND	300	ND	300	ND	300
Benzo (g, h, i) Perylene	ND	300	ND	300	ND	300	ND	300
>> Surrogate Recoveries (%) <<								
2-fluorophenol	82		77		79		82	
phenol-d5	88		82		87		86	
nitrobenzene-d5	86		82		91		85	
2-fluorobiphenyl	92		87		88		87	
2,4,6-tribromophenol	88		86		80		79	
terphenyl-d14	87		128		73		123	



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Project 70074-001-01
Reported on May 20, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21327-09	MW1-10.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-09 Conc. RL ug/Kg
acenaphthylene	ND 300
dimethylphthlate	ND 300
2,6-dinitrotoluene	ND 300
Acenaphthene	ND 300
3-nitroaniline	ND 300
2,4-dinitrophenol	ND 300
dibenzofuran	ND 300
2,4-dinitrotoluene	ND 300
4-nitrophenol	ND 300
fluorene	ND 300
4-chlorophenyl-phenylether	ND 300
diethylphthlate	ND 300
4-nitroaniline	ND 300
4,6-dinitro-2-methylphenol	ND 300
n-nitrosodiphenylamine	ND 300
4-bromo-phenyl-phenylether	ND 300
hexachlorobenzene	ND 300
pentachlorophenol	ND 300
phenanthrene	ND 300
anthracene	ND 300
di-n-butylphthlate	ND 300
fluoranthene	ND 300
benzidine	ND 300
pyrene	ND 300
butylbenzylphthlate	ND 300
3,3'-dichlorobenzidine	ND 300
Benzo (a) Anthracene	ND 300
chrysene	ND 300
bis(2-ethylhexyl)phthalate	ND 300
di-n-octylphthalate	ND 300
benzo (b,k) fluoranthene	ND 300



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Project 70074-001-G1
Reported on May 20, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21327-09	MW1-10.5	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	21327-09 Conc. RL ug/Kg
Benzo(a) Pyrene	ND 300
Indeno(1,2,3) Pyrene	ND 300
dibenzo[a,h]anthracene	ND 300
9H-Carbazole	ND 300
Benzo(g,h,i) Perylene	ND 300

>> Surrogate Recoveries (%) <<

2-fluorophenol	82
phenol-d5	86
nitrobenzene-d5	90
2-fluorobiphenyl	87
2,4,6-tribromophenol	78
terphenyl-d14	77



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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21327

Method Blank(s)

CE151.24-09

Conc. RL

ug/Kg

bis(2-chloroethyl) ether	ND	300
aniline	ND	300
phenol	ND	300
2-chlorophenol	ND	300
1,3-dichlorobenzene	ND	300
1,4-dichlorobenzene	ND	300
1,2-dichlorobenzene	ND	300
benzyl alcohol	ND	300
bis-(2-chloroisopropyl) ether	ND	300
2-methylphenol	ND	300
hexachloroethane	ND	300
n-nitroso-di-n-propylamine	ND	300
4-methylphenol	ND	300
nitrobenzene	ND	300
isophorone	ND	300
2-nitrophenol	ND	300
2,4-dimethylphenol	ND	300
bis(2-chloroethoxy) methane	ND	300
2,4-dichlorophenol	ND	300
1,2,4-trichlorobenzene	ND	300
naphthalene	ND	300
benzoic acid	ND	300
4-chloroaniline	ND	300
hexachlorobutadiene	ND	300
4-chloro-3-methylphenol	ND	300
2-methyl-naphthalene	ND	300
hexachlorocyclopentadiene	ND	300
2,4,6-trichlorophenol	ND	300
2,4,5-trichlorophenol	ND	300
2-chloronaphthalene	ND	300
2-nitroaniline	ND	300
acenaphthylene	ND	300
dimethylphthlate	ND	300
2,6-dinitrotoluene	ND	300
Acenaphthene	ND	300
3-nitroaniline	ND	300
2,4-dinitrophenol	ND	300



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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21327

Method Blank(s)

CE151.24-09

Conc. RL

ug/Kg

dibenzofuran	ND	300
2,4-dinitrotoluene	ND	300
4-nitrophenol	ND	300
fluorene	ND	300
4-chlorophenyl-phenylether	ND	300
diethylphthlate	ND	300
4-nitroaniline	ND	300
4,6-dinitro-2-methylphenol	ND	300
n-nitrosodiphenylamine	ND	300
4-bromo-phenyl-phenylether	ND	300
hexachlorobenzene	ND	300
pentachlorophenol	ND	300
phenanthrene	ND	300
anthracene	ND	300
di-n-butylphthlate	ND	300
fluoranthene	ND	300
benzidine	ND	300
pyrene	ND	300
butylbenzylphthlate	ND	300
3,3'-dichlorobenzidine	ND	300
Benzo (a) Anthracene	ND	300
chrysene	ND	300
bis (2-ethylhexyl) phthalate	ND	300
di-n-octylphthalate	ND	300
benzo (b, k) fluoranthene	ND	300
Benzo (a) Pyrene	ND	300
Indeno (1, 2, 3) Pyrene	ND	300
dibenzo [a, h] anthracene	ND	300
9H-Carbazole	ND	300
Benzo (g, h, i) Perylene	ND	300

>> Surrogate Recoveries (%) <<

2-fluorophenol	90
phenol-d5	95
nitrobenzene-d5	97
2-fluorobiphenyl	99
2,4,6-tribromophenol	95



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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21327

Method Blank(s)

CE151.24-09

Conc. RL

ug/Kg

terphenyl-d14

94



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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (ug/Kg)						
CE151.24 10 / 11 - Laboratory Control Spikes						
phenol		3300	2951/2944	89/89	26-90	0
2-chlorophenol		3300	2974/2902	90/88	25-102	2
1,4-dichlorobenzene		1650	1444/1475	88/89	28-104	1
n-nitroso-di-n-propylamine		1650	1632/1658	99/100	41-126	1
1,2,4-trichlorobenzene		1650	1570/1594	95/97	38-107	2
4-chloro-3-methylphenol		3300	3006/2995	91/91	26-103	0
Acenaphthene		1650	1699/1679	103/102	31-137	1
2,4-dinitrotoluene		1650	1743/1708	106/104	28-118	2
4-nitrophenol		3300	2694/2542	82/77	11-114	6
pentachlorophenol		3300	2799/2693	85/82	17-109	4
pyrene		1650	1479/1525	90/92	35-142	2
>> Surrogate Recoveries (%) <<						
2-fluorophenol				80/79	25-121	
phenol-d5				89/90	24-113	
nitrobenzene-d5				93/92	23-120	
2-fluorobiphenyl				101/104	30-115	
2,4,6-tribromophenol				103/109	19-122	
terphenyl-d14				91/98	18-137	
For Soil Matrix (ug/Kg)						
CE151.24 05 / 06 - Sample Spiked: 21327 - 03						
phenol	ND	3300	2562/2564	78/78	26-90	0
2-chlorophenol	ND	3300	2469/2533	75/77	25-102	3
1,4-dichlorobenzene	ND	1650	1252/1337	76/81	28-104	6
n-nitroso-di-n-propylamine	ND	1650	1362/1443	83/87	41-126	5
1,2,4-trichlorobenzene	ND	1650	1329/1391	81/84	38-107	4
4-chloro-3-methylphenol	ND	3300	2801/2768	85/84	26-103	1
Acenaphthene	ND	1650	1415/1437	86/87	31-137	1
2,4-dinitrotoluene	ND	1650	1559/1605	94/97	28-118	3
4-nitrophenol	ND	3300	2657/2587	81/78	11-114	4
pentachlorophenol	ND	3300	2249/2206	68/67	17-109	1



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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
pyrene	ND	1650	1791/2002	109/121	35-142	10
>> Surrogate Recoveries (%) <<						
2-fluorophenol				73/77	25-121	
phenol-d5				80/82	24-113	
nitrobenzene-d5				80/83	23-120	
2-fluorobiphenyl				84/84	30-115	
2,4,6-tribromophenol				89/88	19-122	
terphenyl-d14				90/90	18-137	

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



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SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Chronology

Laboratory Number 21327

Table with 7 columns: Sample ID, Sampled, Received, Extract., Analyzed, QC Batch, LAB #. Rows include MW3-5.5, MW2-5, MW2-12.5, MW1-7.5, MW1-10.5.

QC Samples

Table with 6 columns: QC Batch #, QC Sample ID, TypeRef., Matrix, Extract., Analyzed. Rows include Laboratory Spike, Laboratory Spike Duplicate, MW-5@15.5, Laboratory Spike, Laboratory Spike Duplicate, MW1-10.5, Method Blank.



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Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21327-01	MW3-5.5	Soil	1.0	-
21327-03	MW2-5	Soil	1.0	-
21327-05	MW2-12.5	Soil	1.0	-
21327-08	MW1-7.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-01		21327-03		21327-05		21327-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	mg/kg		mg/kg		mg/kg		mg/kg	
Stoddard	ND	10	ND	10	ND	10	ND	10
Kerosene	ND	10	ND	10	ND	10	ND	10
Jet Fuel	ND	10	ND	10	ND	10	ND	10
Mineral Spirits	ND	10	ND	10	ND	10	ND	10
Diesel:	ND	1	ND	1	ND	1	ND	1
Bunker Oil	ND	20	ND	20	ND	20	ND	20
Motor Oil	ND	20	ND	20	ND	20	ND	20
Unknown Hydrocarbons					35**	1		
>> Surrogate Recoveries (%) <<								
Tetracosane	98		97		103		100	



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Project 70074-001-01
Reported on May 20, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21327-09	MW1-10.5	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	21327-09	
	Conc.	RL
	mg/kg	
Stoddard	ND	10
Kerosene	ND	10
Jet Fuel	ND	10
Mineral Spirits	ND	10
Diesel:	ND	1
Bunker Oil	ND	20
Motor Oil	ND	20
Unknown Hydrocarbons	11**	1

>> Surrogate Recoveries (%) <<
Tetracosane 105



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Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Quality Assurance and Control Data

Laboratory Number: 21327
Method Blank(s)

	CE132.02-01		CE142.42-01	
	Conc.	RL	Conc.	RL
	mg/Kg		mg/Kg	
Stoddard	ND	10	ND	10
Kerosene	ND	10	ND	10
Jet Fuel	ND	10	ND	10
Mineral Spirits	ND	10	ND	10
Diesel:	ND	1	ND	1
Bunker Oil	ND	20	ND	20
Motor Oil	ND	20	ND	20
Unknown Hydrocarbons	ND	1	ND	1

>> Surrogate Recoveries (%) <<

Tetracosane	94	103
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Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/Kg)						
CE132.02 02 / 03 - Laboratory Control Spikes						
Diesel:		33	29/30	88/91	50-150	3
>> Surrogate Recoveries (%) <<						
Tetracosane				98/98	50-150	
For Soil Matrix (mg/Kg)						
CE142.42 02 / 03 - Laboratory Control Spikes						
Diesel:		33	31/31	94/94	50-150	0
>> Surrogate Recoveries (%) <<						
Tetracosane				97/98	50-150	
For Soil Matrix (mg/Kg)						
CE132.02 04 / 05 - Sample Spiked: 21324 - 20						
Diesel:	ND	33	31/32	94/97	50-150	3
>> Surrogate Recoveries (%) <<						
Tetracosane				98/102	50-150	
For Soil Matrix (mg/Kg)						
CE142.42 04 / 05 - Sample Spiked: 21327 - 09						
Diesel:	11	33	44/40	100/88	50-150	13
>> Surrogate Recoveries (%) <<						
Tetracosane				100/93	50-150	



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Narrative:

** - Lighter hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint. Possible gasoline.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Chronology

Laboratory Number 21327

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW3-5.5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.05	01
MW2-5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.05	03
MW2-12.5	05/10/96	05/10/96	05/17/96	05/17/96	CE161.37	05
MW1-7.5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.05	08
MW1-10.5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.05	09

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE161.37-19	MW-5@19.5	MS 21324-21	Soil	05/16/96	05/16/96
CE161.37-20	MW-5@19.5	MSD 21324-21	Soil	05/16/96	05/16/96
CE151.05-04	Laboratory Spike	LS	Soil	05/15/96	05/15/96
CE151.05-05	Laboratory Spike Duplicate	LSD	Soil	05/15/96	05/15/96
CE151.05-29	#4	MSD 21317-01	Soil	05/15/96	05/15/96
CE151.05-32	#4	MS 21317-01	Soil	05/15/96	05/15/96
CE161.37-17	Laboratory Spike	LS	Soil	05/16/96	05/16/96
CE161.37-04	Method Blank	MB	Soil	05/16/96	05/16/96
CE151.05-03	Method Blank	MB	Soil	05/15/96	05/15/96



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Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21327-01	MW3-5.5	Soil	1.0	-
21327-03	MW2-5	Soil	1.0	-
21327-05	MW2-12.5	Soil	40.0	-
21327-08	MW1-7.5	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21327-01		21327-03		21327-05		21327-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	mg/kg		mg/kg		mg/kg		mg/kg	
Benzene	ND	0.005	ND	0.005	ND	0.20	ND	0.005
Toluene	ND	0.005	ND	0.005	0.37	0.20	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005	3.2	0.20	ND	0.005
Xylenes	ND	0.005	ND	0.005	6.5	0.20	ND	0.005
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	106		108		115		103	



Superior

Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21327-09	MW1-10.5	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	21327-09	
	Conc.	RL
	mg/kg	
Benzene	ND	0.005
Toluene	0.10	0.005
Ethyl Benzene	0.19	0.005
Xylenes	0.25	0.005
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	126	



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Analytical Laboratory

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 21327

Method Blank(s)

	CE161.37-04		CE151.05-03	
	Conc.	RL	Conc.	RL
	mg/kg		mg/kg	
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS) 103 101



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Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
CE151.05 04 / 05 - Laboratory Control Spikes						
Benzene		0.100	0.11/0.11	110/110	65-125	0
Toluene		0.100	0.11/0.11	110/110	65-125	0
Ethyl Benzene		0.100	0.11/0.11	110/110	65-125	0
Xylenes		0.300	0.32/0.33	107/110	65-125	3
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				95/98	50-150	
For Soil Matrix (mg/kg)						
CE161.37 17 / - Laboratory Control Spikes						
Benzene		.100	.099	99	65-125	
Toluene		.100	.100	100	65-125	
Ethyl Benzene		.100	.100	100	65-125	
Xylenes		.300	.290	97	65-125	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				103	50-150	
For Soil Matrix (mg/kg)						
CE161.37 19 / 20 - Sample Spiked: 21324 - 21						
Benzene	ND	0.100	0.091/0.095	91/95	65-135	4
Toluene	ND	0.100	0.097/0.10	97/100	65-135	3
Ethyl Benzene	ND	0.100	0.097/0.10	97/100	65-135	3
Xylenes	ND	0.300	0.27/0.29	90/97	65-135	7
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				105/105	50-150	



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Analytical Laboratory

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
CE151.05 32 / 29 - Sample Spiked: 21317 - 01						
Benzene	ND	0.100	.11/0.10	110/100	65-125	10
Toluene	ND	0.100	.11/0.11	110/110	65-125	0
Ethyl Benzene	ND	0.100	.11/0.11	110/110	65-125	0
Xylenes	ND	0.300	.32/0.31	107/103	65-125	4
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				97/104	50-150	

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)

21327

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord (510) 686-9780
 Address: 1390 Willow Pass Rd. Ste 300
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Bohannon
 Location: 575 Paseo Grande
San Lorenzo, CA.

Project # 20074-001-01 Task # _____
 Project Manager Steve McCabe
 Laboratory Superior
 Turnaround Time Std.

Sampler's Name Bob Robitaille
 Sampler's Signature [Signature]

Analysis Request

Sample ID	Date	Time	Matrix	HClD	TPH/g/BTEX/WTPH-G 8015 (modified)/8020	TPH/d/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant CAM Metals (88)	TCLP Metals	Hydrocarbon Scan and BTEX	Hold	Comments/ Instructions	Number of Containers
1 MW3-5.5	5-10-96	08:50	Soil						X	X				X		X			1
2 mw3-7.5		08:55															X		1
3 MW2-5		10:30							X	X				X		X			1
4 MW2-6.5		10:35												X		X			1
5 MW2-12.5		10:45							X	X				X		X			1
6 MW2-14		10:55															X		1
7 MW1-4.5		11:40												X		X			1
8 MW1-7.5		11:58							X	X				X		X			1
9 MW1-10.5		12:05							X	X				X		X			1
10 MW1-12		12:00															X		1

Special Instructions/Comments: cold
Samples stored in ice.
 Appropriate containers ✓
 Samples preserved NA
 VOA's without headspace NA
 Comments: _____

Relinquished by: _____
 Sign [Signature]
 Print _____
 Company SECOR
 Time 1635 Date 5-10-96

Received by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124343-005	UT-WW-1	25778	02/06/96	02/06/96	02/06/96	

Analyte	Units	124343-005
Diln Fac:		1
Gasoline	mg/Kg	<1
Surrogate		
Trifluorotoluene	%REC	99
Bromobenzene	%REC	106



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8020
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124343-005	UT-WW-1	25778	02/06/96	02/06/96	02/06/96	

Analyte	Units	124343-005
Diln Fac:		1
Benzene	ug/Kg	<5
Toluene	ug/Kg	<5
Ethylbenzene	ug/Kg	<5
m,p-Xylenes	ug/Kg	<5
o-Xylene	ug/Kg	<5
Surrogate		
Trifluorotoluene	%REC	97
Bromobenzene	%REC	103



Lab #: 124343

BATCH QC REPORT

Page 1 of 1

TVH-Total Volatile Hydrocarbons

Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

METHOD BLANK

Matrix: Soil	Prep Date: 02/06/96
Batch#: 25778	Analysis Date: 02/06/96
Units: mg/Kg	
Diln Fac: 1	

MB Lab ID: QC14569

Analyte	Result	
Gasoline	<1.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	98	52-127
Bromobenzene	103	45-140



Lab #: 124343

BATCH QC REPORT

Page 1 of 1

BTXE			
Client:	Secor	Analysis Method:	EPA 8020
Project#:	70074-001-02	Prep Method:	EPA 5030
Location:	Bohannon Development		
METHOD BLANK			
Matrix:	Soil	Prep Date:	02/06/96
Batch#:	25778	Analysis Date:	02/06/96
Units:	ug/Kg		
Diln Fac:	1		

MB Lab ID: QC14569

Analyte	Result		
Benzene	<5.0		
Toluene	<5.0		
Ethylbenzene	<5.0		
m,p-Xylenes	<5.0		
o-Xylene	<5.0		
Surrogate	%Rec	Recovery Limits	
Trifluorotoluene	103	43-114	
Bromobenzene	106	47-112	



Lab #: 124343

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
 Batch#: 25778
 Units: mg/Kg
 Diln Fac: 1

Prep Date: 02/06/96
 Analysis Date: 02/06/96

LCS Lab ID: QC14567

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10.8	10	108	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	107	52-127		
Bromobenzene	108	45-140		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



Lab #: 124343

BATCH QC REPORT

Page 1 of 1

BTXE			
Client: Secor	Analysis Method: EPA 8020		
Project#: 70074-001-02	Prep Method: EPA 5030		
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil	Prep Date: 02/06/96		
Batch#: 25778	Analysis Date: 02/06/96		
Units: ug/Kg			
Diln Fac: 1			

LCS Lab ID: QC14568

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	93.8	100	94	80-120
Toluene	100	100	100	80-120
Ethylbenzene	100.1	100	100	80-120
m,p-Xylenes	200.2	200	100	80-120
o-Xylene	102.3	100	102	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	97	43-114		
Bromobenzene	95	47-112		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 5 outside limits



Lab #: 124343

BATCH QC REPORT

Page 1 of 1

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: U-EW-5	Sample Date: 02/06/96
Lab ID: 124343-002	Received Date: 02/06/96
Matrix: Soil	Prep Date: 02/06/96
Batch#: 25778	Analysis Date: 02/06/96
Units: ug/Kg	
Diln Fac: 1	

MS Lab ID: QC14575

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Benzene	100	<5.000	89.2	89	75-125
Toluene	100	<5.000	95.4	95	75-125
Ethylbenzene	100	<5.000	88.3	88	75-125
m,p-Xylenes	200	<5.000	156.2	78	75-125
o-Xylene	100	<5.000	88.7	89	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	97	43-114			
Bromobenzene	103	47-112			

MSD Lab ID: QC14576

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Benzene	100	87	87	75-125	3	<20
Toluene	100	94.5	95	75-125	1	<20
Ethylbenzene	100	90.7	91	75-125	3	<20
m,p-Xylenes	200	162.9	81	75-125	4	<20
o-Xylene	100	92.2	92	75-125	4	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	97	43-114				
Bromobenzene	106	47-112				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

124343

CHAIN OF CUSTODY FORM

Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1870



2323 Fifth Street
Berkeley, CA 94710
(510) 488-0900 Phone
(510) 488-0532 Fax

C&T

LOGIN # _____

Page 01 of 01

Analyses _____

Project No: 70074-001-02

Project Name: Bohannon

Project P.O.: _____

Turnaround Time: 24 TPLs/BTEX

Sampler: Steve MScake

Report To: Steve MScake

Company: SECOR

Telephone: (510) 686-9780

Fax: (510) 686-5099

24 hour

Lab Number	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative				Field Notes
			Soil	Water	Waste		HCl	H2SO4	HNO3	ICE	
	U-EW-4										
	U-EW-5										
	U-SW-4										
	UT-SW-1										
	UT-WW-1										

TPLs/BTEX (TPHs/BTEX) Mincarb Samples
 CAVA #
 Hydrocarbon San 4181, TPH - km, moir

Notes:
 Please Fax C.O.C.
 2/7 - minimal spirits not required - per S.Mc.

RELINQUISHED BY:
[Signature] 3/6/96 14:25
 DATE/TIME

 DATE/TIME

 DATE/TIME

RECEIVED BY:
[Signature] 3/6/96
 DATE/TIME

 DATE/TIME

 DATE/TIME

Signature on this form constitutes a firm Purchase Order for the services requested.



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Road
Concord, CA 94520

Date: 14-FEB-96
Lab Job Number: 124365
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by: _____

Reviewed by: _____

This package may be reproduced only in its entirety.



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 124365
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

DATE SAMPLED: 02/07/96
DATE RECEIVED: 02/07/96
DATE ANALYZED: 02/12/96
BATCH NO: 25896

=====
ANALYSIS: TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
ANALYSIS METHOD: EPA 418.1
=====

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
124365-001	U-WW-4	ND	mg/Kg	25
124365-002	UT-NW-1	ND	mg/Kg	25
124365-003	UT-EW-1	70	mg/Kg	25
124365-004	UT-EW-2	220	mg/Kg	25
124365-005	UT-WW-2	ND	mg/Kg	25
124365-006	UT-F-1	150	mg/Kg	25
124365-007	S-PL	ND	mg/Kg	25
124365-008	U-EW-6	ND	mg/Kg	25
METHOD BLANK	N/A	ND	mg/Kg	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: MS/MSD of 124343-002

RPD, %	<1
RECOVERY, %	109



Curtis & Tompkins, Ltd.

SAMPLE ID: U-WW-4
LAB ID: 124365-001
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 02/07/96
DATE RECEIVED: 02/07/96
DATE REPORTED: 05/30/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	2.9	1	25895	EPA 6010A	02/13/96
Arsenic	3.7	0.24	1	25895	EPA 6010A	02/13/96
Barium	120	0.48	1	25895	EPA 6010A	02/13/96
Beryllium	0.57	0.097	1	25895	EPA 6010A	02/13/96
Cadmium	0.57	0.048	1	25895	EPA 6010A	02/13/96
Chromium (total)	29	0.48	1	25895	EPA 6010A	02/13/96
Cobalt	7.1	0.97	1	25895	EPA 6010A	02/13/96
Copper	13	0.48	1	25895	EPA 6010A	02/13/96
Lead	5.3	0.14	1	25895	EPA 6010A	02/13/96
Mercury	ND	0.10	1	25826	EPA 7471	02/09/96
Molybdenum	ND	0.97	1	25895	EPA 6010A	02/13/96
Nickel	33	0.97	1	25895	EPA 6010A	02/13/96
Selenium	0.65	0.24	1	25895	EPA 6010A	02/13/96
Silver	ND	0.48	1	25895	EPA 6010A	02/13/96
Thallium	ND	0.24	1	25895	EPA 6010A	02/13/96
Vanadium	23	0.48	1	25895	EPA 6010A	02/13/96
Zinc	34	0.97	1	25895	EPA 6010A	02/13/96

ND = Not detected at or above reporting limit



SAMPLE ID: UT-NW-1
 LAB ID: 124365-002
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 02/07/96
 DATE RECEIVED: 02/07/96
 DATE REPORTED: 02/14/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	2.9	1	25895	EPA 6010A	02/13/96
Arsenic	3.1	0.24	1	25895	EPA 6010A	02/13/96
Barium	75	0.48	1	25895	EPA 6010A	02/13/96
Beryllium	0.43	0.096	1	25895	EPA 6010A	02/13/96
Cadmium	0.36	0.048	1	25895	EPA 6010A	02/13/96
Chromium (total)	20	0.48	1	25895	EPA 6010A	02/13/96
Cobalt	5.5	0.96	1	25895	EPA 6010A	02/13/96
Copper	7.4	0.48	1	25895	EPA 6010A	02/13/96
Lead	4.1	0.14	1	25895	EPA 6010A	02/13/96
Mercury	ND	0.091	1	25826	EPA 7471	02/09/96
Molybdenum	ND	0.96	1	25895	EPA 6010A	02/13/96
Nickel	24	0.96	1	25895	EPA 6010A	02/13/96
Selenium	0.63	0.24	1	25895	EPA 6010A	02/13/96
Silver	ND	0.48	1	25895	EPA 6010A	02/13/96
Thallium	ND	0.24	1	25895	EPA 6010A	02/13/96
Vanadium	18	0.48	1	25895	EPA 6010A	02/13/96
Zinc	23	0.96	1	25895	EPA 6010A	02/13/96

ND = Not detected at or above reporting limit



SAMPLE ID: UT-EW-1
LAB ID: 124365-003
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 02/07/96
DATE RECEIVED: 02/07/96
DATE REPORTED: 02/14/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	3.0	1	25895	EPA 6010A	02/13/96
Arsenic	4.0	0.25	1	25895	EPA 6010A	02/13/96
Barium	96	0.50	1	25895	EPA 6010A	02/13/96
Beryllium	0.64	0.10	1	25895	EPA 6010A	02/13/96
Cadmium	0.62	0.050	1	25895	EPA 6010A	02/13/96
Chromium (total)	29	0.50	1	25895	EPA 6010A	02/13/96
Cobalt	8.3	1.0	1	25895	EPA 6010A	02/13/96
Copper	27	0.50	1	25895	EPA 6010A	02/13/96
Lead	21	0.15	1	25895	EPA 6010A	02/13/96
Mercury	0.28	0.095	1	25826	EPA 7471	02/09/96
Molybdenum	ND	1.0	1	25895	EPA 6010A	02/13/96
Nickel	30	1.0	1	25895	EPA 6010A	02/13/96
Selenium	0.62	0.25	1	25895	EPA 6010A	02/13/96
Silver	ND	0.50	1	25895	EPA 6010A	02/13/96
Thallium	ND	0.25	1	25895	EPA 6010A	02/13/96
Vanadium	34	0.50	1	25895	EPA 6010A	02/13/96
Zinc	66	1.0	1	25895	EPA 6010A	02/13/96

ND = Not detected at or above reporting limit



SAMPLE ID: UT-EW-2
 LAB ID: 124365-004
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 02/07/96
 DATE RECEIVED: 02/07/96
 DATE REPORTED: 02/14/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	3.0	1	25895	EPA 6010A	02/13/96
Arsenic	4.8	0.25	1	25895	EPA 6010A	02/13/96
Barium	120	0.49	1	25895	EPA 6010A	02/13/96
Beryllium	0.72	0.099	1	25895	EPA 6010A	02/13/96
Cadmium	0.82	0.049	1	25895	EPA 6010A	02/13/96
Chromium (total)	42	0.49	1	25895	EPA 6010A	02/13/96
Cobalt	8.4	0.99	1	25895	EPA 6010A	02/13/96
Copper	24	0.49	1	25895	EPA 6010A	02/13/96
Lead	70	0.15	1	25895	EPA 6010A	02/13/96
Mercury	0.12	0.10	1	25826	EPA 7471	02/09/96
Molybdenum	ND	0.99	1	25895	EPA 6010A	02/13/96
Nickel	39	0.99	1	25895	EPA 6010A	02/13/96
Selenium	0.68	0.25	1	25895	EPA 6010A	02/13/96
Silver	ND	0.49	1	25895	EPA 6010A	02/13/96
Thallium	ND	0.25	1	25895	EPA 6010A	02/13/96
Vanadium	33	0.49	1	25895	EPA 6010A	02/13/96
Zinc	210	9.9	10	25895	EPA 6010A	02/13/96

ND = Not detected at or above reporting limit



SAMPLE ID: UT-WW-2
LAB ID: 124365-005
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 02/07/96
DATE RECEIVED: 02/07/96
DATE REPORTED: 02/14/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	3.0	1	25895	EPA 6010A	02/13/96
Arsenic	3.5	0.25	1	25895	EPA 6010A	02/13/96
Barium	110	0.50	1	25895	EPA 6010A	02/13/96
Beryllium	0.55	0.099	1	25895	EPA 6010A	02/13/96
Cadmium	0.46	0.050	1	25895	EPA 6010A	02/13/96
Chromium (total)	29	0.50	1	25895	EPA 6010A	02/13/96
Cobalt	6.9	0.99	1	25895	EPA 6010A	02/13/96
Copper	10	0.50	1	25895	EPA 6010A	02/13/96
Lead	5.0	0.15	1	25895	EPA 6010A	02/13/96
Mercury	0.21	0.10	1	25826	EPA 7471	02/09/96
Molybdenum	ND	0.99	1	25895	EPA 6010A	02/13/96
Nickel	32	0.99	1	25895	EPA 6010A	02/13/96
Selenium						
Silver	ND	0.50	1	25895	EPA 6010A	02/13/96
Thallium	ND	0.25	1	25895	EPA 6010A	02/13/96
Vanadium	23	0.50	1	25895	EPA 6010A	02/13/96
Zinc	29	0.99	1	25895	EPA 6010A	02/13/96

ND = Not detected at or above reporting limit



SAMPLE ID: UT-F-1
 LAB ID: 124365-006
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 02/07/96
 DATE RECEIVED: 02/07/96
 DATE REPORTED: 02/14/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	2.9	1	25895	EPA 6010A	02/13/96
Arsenic	5.0	0.24	1	25895	EPA 6010A	02/13/96
Barium	110	0.48	1	25895	EPA 6010A	02/13/96
Beryllium	0.64	0.096	1	25895	EPA 6010A	02/13/96
Cadmium	0.65	0.048	1	25895	EPA 6010A	02/13/96
Chromium (total)	31	0.48	1	25895	EPA 6010A	02/13/96
Cobalt	8.5	0.96	1	25895	EPA 6010A	02/13/96
Copper	27	0.48	1	25895	EPA 6010A	02/13/96
Lead	31	0.14	1	25895	EPA 6010A	02/13/96
Mercury	ND	0.095	1	25826	EPA 7471	02/09/96
Molybdenum	ND	0.96	1	25895	EPA 6010A	02/13/96
Nickel	34	0.96	1	25895	EPA 6010A	02/13/96
Selenium	0.65	0.24	1	25895	EPA 6010A	02/13/96
Silver	ND	0.48	1	25895	EPA 6010A	02/13/96
Thallium	ND	0.24	1	25895	EPA 6010A	02/13/96
Vanadium	30	0.48	1	25895	EPA 6010A	02/13/96
Zinc	97	0.96	1	25895	EPA 6010A	02/13/96

ND = Not detected at or above reporting limit



SAMPLE ID: S-PL
LAB ID: 124365-007
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 02/07/96
DATE RECEIVED: 02/07/96
DATE REPORTED: 02/14/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	2.9	1	25895	EPA 6010A	02/13/96
Arsenic	3.8	0.24	1	25895	EPA 6010A	02/13/96
Barium	120	0.48	1	25895	EPA 6010A	02/13/96
Beryllium	0.69	0.096	1	25895	EPA 6010A	02/13/96
Cadmium	0.58	0.048	1	25895	EPA 6010A	02/13/96
Chromium (total)	34	0.48	1	25895	EPA 6010A	02/13/96
Cobalt	8.1	0.96	1	25895	EPA 6010A	02/13/96
Copper	12	0.48	1	25895	EPA 6010A	02/13/96
Lead	6.0	0.14	1	25895	EPA 6010A	02/13/96
Mercury	ND	0.091	1	25826	EPA 7471	02/09/96
Molybdenum	ND	0.96	1	25895	EPA 6010A	02/13/96
Nickel	36	0.96	1	25895	EPA 6010A	02/13/96
Selenium	0.65	0.24	1	25895	EPA 6010A	02/13/96
Silver	ND	0.48	1	25895	EPA 6010A	02/13/96
Thallium	ND	0.24	1	25895	EPA 6010A	02/13/96
Vanadium	30	0.48	1	25895	EPA 6010A	02/13/96
Zinc	37	0.96	1	25895	EPA 6010A	02/13/96

ND = Not detected at or above reporting limit



SAMPLE ID: U-EW-6
LAB ID: 124365-008
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 02/07/96
DATE RECEIVED: 02/07/96
DATE REPORTED: 02/14/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	3.0	1	25895	EPA 6010A	02/13/96
Arsenic	3.4	0.25	1	25895	EPA 6010A	02/13/96
Barium	57	0.50	1	25895	EPA 6010A	02/13/96
Beryllium	0.42	0.099	1	25895	EPA 6010A	02/13/96
Cadmium	0.38	0.050	1	25895	EPA 6010A	02/13/96
Chromium (total)	17	0.50	1	25895	EPA 6010A	02/13/96
Cobalt	5.2	0.99	1	25895	EPA 6010A	02/13/96
Copper	4.8	0.50	1	25895	EPA 6010A	02/13/96
Lead	3.5	0.15	1	25895	EPA 6010A	02/13/96
Mercury	ND	0.10	1	25826	EPA 7471	02/09/96
Molybdenum	ND	0.99	1	25895	EPA 6010A	02/13/96
Nickel	19	0.99	1	25895	EPA 6010A	02/13/96
Selenium						
Silver	ND	0.50	1	25895	EPA 6010A	02/13/96
Thallium	ND	0.25	1	25895	EPA 6010A	02/13/96
Vanadium	18	0.50	1	25895	EPA 6010A	02/13/96
Zinc	21	0.99	1	25895	EPA 6010A	02/13/96

ND = Not detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 124365

DATE REPORTED: 02/14/96

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	492	501	ug/L	98	100	99	2	25895	EPA 6010A	02/13/96
Arsenic	2000	1770	1840	ug/L	89	92	91	4	25895	EPA 6010A	02/13/96
Barium	2000	1850	1920	ug/L	93	96	95	4	25895	EPA 6010A	02/13/96
Beryllium	50	48.8	51	ug/L	98	102	100	4	25895	EPA 6010A	02/13/96
Cadmium	50	47.3	49.3	ug/L	95	99	97	4	25895	EPA 6010A	02/13/96
Chromium (total)	200	180	188	ug/L	90	94	92	4	25895	EPA 6010A	02/13/96
Cobalt	500	455	477	ug/L	91	95	93	5	25895	EPA 6010A	02/13/96
Copper	250	244	254	ug/L	98	102	100	4	25895	EPA 6010A	02/13/96
Lead	500	455	477	ug/L	91	95	93	5	25895	EPA 6010A	02/13/96
Mercury	5	5.046	5.064	ug/L	101	101	101	0	25826	EPA 7470	02/09/96
Molybdenum	400	357	375	ug/L	89	94	92	5	25895	EPA 6010A	02/13/96
Nickel	500	458	478	ug/L	92	96	94	4	25895	EPA 6010A	02/13/96
Selenium	2000	1720	1790	ug/L	86	90	88	4	25895	EPA 6010A	02/13/96
Silver	100	96.8	102	ug/L	97	102	100	5	25895	EPA 6010A	02/13/96
Thallium	2000	1850	1940	ug/L	93	97	95	5	25895	EPA 6010A	02/13/96
Vanadium	500	460	480	ug/L	92	96	94	4	25895	EPA 6010A	02/13/96
Zinc	500	453	474	ug/L	91	95	93	5	25895	EPA 6010A	02/13/96

CLIENT: Secor
JOB NUMBER: 124365

DATE REPORTED: 02/14/96



BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	25895	EPA 6010A	02/13/96
Arsenic	ND	0.25	mg/Kg	25895	EPA 6010A	02/13/96
Barium	ND	0.5	mg/Kg	25895	EPA 6010A	02/13/96
Beryllium	ND	0.1	mg/Kg	25895	EPA 6010A	02/13/96
Cadmium	ND	0.05	mg/Kg	25895	EPA 6010A	02/13/96
Chromium (total)	ND	0.5	mg/Kg	25895	EPA 6010A	02/13/96
Cobalt	ND	1	mg/Kg	25895	EPA 6010A	02/13/96
Copper	ND	0.5	mg/Kg	25895	EPA 6010A	02/13/96
Lead	ND	0.15	mg/Kg	25895	EPA 6010A	02/13/96
Mercury	ND	0.1	mg/Kg	25826	EPA 7471	02/09/96
Molybdenum	ND	1	mg/Kg	25895	EPA 6010A	02/13/96
Nickel	ND	1	mg/Kg	25895	EPA 6010A	02/13/96
Selenium	ND	0.25	mg/Kg	25895	EPA 6010A	02/13/96
Silver	ND	0.5	mg/Kg	25895	EPA 6010A	02/13/96
Thallium	ND	0.25	mg/Kg	25895	EPA 6010A	02/13/96
Vanadium	ND	0.5	mg/Kg	25895	EPA 6010A	02/13/96
Zinc	ND	1	mg/Kg	25895	EPA 6010A	02/13/96

ND = Not Detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 124365

DATE REPORTED: 02/14/96

BATCH QC REPORT
SAMPLE DUPLICATE

Compound	Sample	Sample Result	Duplicate Result	Units	RPD	QC Batch	Method	Analysis Date
Antimony	124280-004	<3.300	<3.300	mg/Kg	NC	25895	EPA 6010A	02/13/96
Arsenic	124280-004	0.9829	0.9406	mg/Kg	4	25895	EPA 6010A	02/13/96
Barium	124280-004	20.41	19.8	mg/Kg	3	25895	EPA 6010A	02/13/96
Beryllium	124280-004	0.2666	0.2684	mg/Kg	1	25895	EPA 6010A	02/13/96
Cadmium	124280-004	0.1341	0.1155	mg/Kg	15	25895	EPA 6010A	02/13/96
Chromium (total)	124280-004	8.761	9.076	mg/Kg	4	25895	EPA 6010A	02/13/96
Cobalt	124280-004	1.496	1.166	mg/Kg	25	25895	EPA 6010A	02/13/96
Copper	124280-004	2.495	1.337	mg/Kg	60	25895	EPA 6010A	02/13/96
Lead	124280-004	1.763	1.727	mg/Kg	2	25895	EPA 6010A	02/13/96
Mercury	124365-001	<0.100	<0.100	mg/Kg	NC	25826	EPA 7471	02/09/96
Molybdenum	124280-004	<1.100	<1.100	mg/Kg	NC	25895	EPA 6010A	02/13/96
Nickel	124280-004	6.891	6.821	mg/Kg	1	25895	EPA 6010A	02/13/96
Selenium	124280-004	<0.275	<0.275	mg/Kg	NC	25895	EPA 6010A	02/13/96
Silver	124280-004	<0.550	<0.550	mg/Kg	NC	25895	EPA 6010A	02/13/96
Thallium	124280-004	<0.275	<0.275	mg/Kg	NC	25895	EPA 6010A	02/13/96
Vanadium	124280-004	9.348	8.196	mg/Kg	13	25895	EPA 6010A	02/13/96
Zinc	124280-004	6.998	6.546	mg/Kg	7	25895	EPA 6010A	02/13/96

NC = Not Calculable



CLIENT: Secor
JOB NUMBER: 124365

DATE REPORTED: 02/14/96

BATCH QC REPORT
SAMPLE SPIKE

Compound	Spike Amount	Sample	Sample Result	Spike Result	Units	Percent Rec.	QC Batch	Method	Analysis Date
Antimony	27.78	124280-004	<3.333	15	mg/Kg	54	25895	EPA 6010A	02/13/96
Arsenic	111.1	124280-004	0.9829	102.8	mg/Kg	92	25895	EPA 6010A	02/13/96
Barium	111.1	124280-004	20.41	131.1	mg/Kg	100	25895	EPA 6010A	02/13/96
Beryllium	2.78	124280-004	0.2666	3.111	mg/Kg	102	25895	EPA 6010A	02/13/96
Cadmium	2.78	124280-004	0.1341	2.917	mg/Kg	100	25895	EPA 6010A	02/13/96
Chromium (total)	11.11	124280-004	8.761	20.33	mg/Kg	104	25895	EPA 6010A	02/13/96
Cobalt	27.78	124280-004	1.496	28.78	mg/Kg	98	25895	EPA 6010A	02/13/96
Copper	13.89	124280-004	2.495	18.56	mg/Kg	116	25895	EPA 6010A	02/13/96
Lead	27.78	124280-004	1.763	28.72	mg/Kg	97	25895	EPA 6010A	02/13/96
Mercury	2.5	124365-001	<0.100	2.596	mg/Kg	104	25826	EPA 7471	02/09/96
Molybdenum	22.22	124280-004	<1.111	19.83	mg/Kg	89	25895	EPA 6010A	02/13/96
Nickel	27.78	124280-004	6.891	34.33	mg/Kg	99	25895	EPA 6010A	02/13/96
Selenium	111.1	124280-004	<0.278	100	mg/Kg	90	25895	EPA 6010A	02/13/96
Silver	5.56	124280-004	<0.556	4.75	mg/Kg	86	25895	EPA 6010A	02/13/96
Thallium	111.1	124280-004	<0.278	108.9	mg/Kg	98	25895	EPA 6010A	02/13/96
Vanadium	27.78	124280-004	9.348	36.22	mg/Kg	97	25895	EPA 6010A	02/13/96
Zinc	27.78	124280-004	6.998	34	mg/Kg	97	25895	EPA 6010A	02/13/96



TEH-Tot Ext Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124365-001	U-WW-4	25824	02/07/96	02/08/96	02/13/96	
124365-002	UT-NW-1	25824	02/07/96	02/08/96	02/13/96	
124365-003	UT-EW-1	25824	02/07/96	02/08/96	02/14/96	
124365-004	UT-EW-2	25824	02/07/96	02/08/96	02/14/96	

Matrix: Soil

Analyte	Units	124365-001	124365-002	124365-003	124365-004
Diln Fac:		1	1	1	2
Kerosene C10-C16	mg/Kg	<1	<1	2.4	<2
Diesel C12-C22	mg/Kg	<1	<1	6.9YH	6.3YH
Motor Oil C22-C50	mg/Kg	<25	<25	290 YH	510 YH
Surrogate					
Hexacosane	%REC	81	79	119	123

Y: Sample exhibits fuel pattern which does not resemble standard

H: Heavier hydrocarbons than indicated standard



TEH-Tot Ext Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124365-005	UT-WW-2	25824	02/07/96	02/08/96	02/13/96	
124365-006	UT-F-1	25824	02/07/96	02/08/96	02/14/96	
124365-007	S-PL	25824	02/07/96	02/08/96	02/13/96	
124365-008	U-EW-6	25824	02/07/96	02/08/96	02/13/96	

Matrix: Soil

Analyte	Units	124365-005	124365-006	124365-007	124365-008
Diln Fac:		1	2	1	1
Kerosene C10-C16	mg/Kg	<1	18	<1	<1
Diesel C12-C22	mg/Kg	<1	12 YH	<1	<1
Motor Oil C22-C50	mg/Kg	<25	490 YH	33 YH	<25
Surrogate					
Hexacosane	%REC	116	123	115	87

Y: Sample exhibits fuel pattern which does not resemble standard

H: Heavier hydrocarbons than indicated standard



Lab #: 124365

BATCH QC REPORT

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TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

METHOD BLANK

Matrix: Soil
Batch#: 25824
Units: mg/Kg
Diln Fac: 1

Prep Date: 02/08/96
Analysis Date: 02/12/96

MB Lab ID: QC14717

Analyte	Result	
Kerosene Range	<1.0	
Diesel Range	<1.0	
Motor Oil Range	<25	
Surrogate	%Rec	Recovery Limits
Hexacosane	82	60-140



Lab #: 124365

BATCH QC REPORT

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TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: LUFT
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 02/08/96
Batch#: 25824	Analysis Date: 02/12/96
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC14718

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	43	49.5	87	60-140
Surrogate	%Rec	Limits		
Hexacosane	86	60-140		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits



TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: LUFT
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: UT-NW-1	Sample Date: 02/07/96
Lab ID: 124365-002	Received Date: 02/07/96
Matrix: Soil	Prep Date: 02/08/96
Batch#: 25824	Analysis Date: 02/12/96
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC14719

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Diesel Range	49.5	<1.000	39.8	80	60-140
Surrogate	%Rec	Limits			
Hexacosane	77	60-140			

MSD Lab ID: QC14720

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Diesel Range	49.5	38	77	60-140	5	<30
Surrogate	%Rec	Limits				
Hexacosane	62	60-140				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



TVH-Total Volatile Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124365-001	U-WW-4	25807	02/07/96	02/07/96	02/07/96	
124365-002	UT-NW-1	25807	02/07/96	02/07/96	02/07/96	
124365-003	UT-EW-1	25807	02/07/96	02/07/96	02/07/96	
124365-004	UT-EW-2	25807	02/07/96	02/07/96	02/07/96	

Matrix: Soil

Analyte	Units	124365-001	124365-002	124365-003	124365-004
Diln Fac:		1	1	1	1
Gasoline	mg/Kg	<1	<1	<1	<1
Surrogate					
Trifluorotoluene	%REC	94	100	91	90
Bromobenzene	%REC	89	92	88	90



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124365-005	UT-WW-2	25807	02/07/96	02/07/96	02/07/96	
124365-006	UT-F-1	25807	02/07/96	02/08/96	02/08/96	
124365-007	S-PL	25807	02/07/96	02/07/96	02/07/96	
124365-008	U-EW-6	25807	02/07/96	02/07/96	02/07/96	

Matrix: Soil

Analyte	Units	124365-005	124365-006	124365-007	124365-008
Diln Fac:		1	1	1	1
Gasoline	mg/Kg	<1	1.6	<1	<1
Surrogate					
Trifluorotoluene	%REC	85	69	89	91
Bromobenzene	%REC	85	67	86	92



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8020
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124365-001	U-WW-4	25807	02/07/96	02/07/96	02/07/96	
124365-002	UT-NW-1	25807	02/07/96	02/07/96	02/07/96	
124365-003	UT-EW-1	25807	02/07/96	02/07/96	02/07/96	
124365-004	UT-EW-2	25807	02/07/96	02/07/96	02/07/96	

Matrix: Soil

Analyte	Units	124365-001	124365-002	124365-003	124365-004
Diln Fac:		1	1	1	1
Benzene	ug/Kg	<5	<5	<5	<5
Toluene	ug/Kg	<5	<5	<5	<5
Ethylbenzene	ug/Kg	<5	<5	<5	<5
m,p-Xylenes	ug/Kg	<5	<5	<5	<5
o-Xylene	ug/Kg	<5	<5	<5	<5
Surrogate					
Trifluorotoluene	%REC	94	99	91	86
Bromobenzene	%REC	88	91	87	83



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8020
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124365-005	UT-WW-2	25807	02/07/96	02/07/96	02/07/96	
124365-006	UT-F-1	25807	02/07/96	02/08/96	02/08/96	
124365-007	S-PL	25807	02/07/96	02/07/96	02/07/96	
124365-008	U-EW-6	25807	02/07/96	02/07/96	02/07/96	

Matrix: Soil

Analyte	Units	124365-005	124365-006	124365-007	124365-008
Diln Fac:		1	1	1	1
Benzene	ug/Kg	<5	<5	<5	<5
Toluene	ug/Kg	<5	<5	<5	<5
Ethylbenzene	ug/Kg	<5	<5	<5	<5
m,p-Xylenes	ug/Kg	<5	<5	<5	<5
o-Xylene	ug/Kg	<5	<5	<5	<5
Surrogate					
Trifluorotoluene	%REC	84	64	85	88
Bromobenzene	%REC	82	63	83	87



Lab #: 124365

BATCH QC REPORT

Page 1 of 1

TVH-Total Volatile Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
METHOD: BLANK			
Matrix: Soil		Prep Date: 02/07/96	
Batch#: 25807		Analysis Date: 02/07/96	
Units: mg/Kg			
Diln Fac: 1			

MB Lab ID: QC14657

Analyte	Result		
Gasoline	<1.0		
Surrogate	%Rec	Recovery Limits	
Trifluorotoluene	100	52-127	
Bromobenzene	100	45-140	



Lab #: 124365

BATCH QC REPORT

Page 1 of 1

BTXE			
Client:	Secor	Analysis Method:	EPA 8020
Project#:	70074-001-02	Prep Method:	EPA 5030
Location:	Bohannon Development		
METHOD BLANK			
Matrix:	Soil	Prep Date:	02/07/96
Batch#:	25807	Analysis Date:	02/07/96
Units:	ug/Kg		
Diln Fac:	1		

MB Lab ID: QC14657

Analyte	Result		
Benzene	<5.0		
Toluene	<5.0		
Ethylbenzene	<5.0		
m,p-Xylenes	<5.0		
o-Xylene	<5.0		
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	100		43-114
Bromobenzene	100		47-112



Lab #: 124365

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: UT-NW-1	Sample Date: 02/07/96
Lab ID: 124365-002	Received Date: 02/07/96
Matrix: Soil	Prep Date: 02/07/96
Batch#: 25807	Analysis Date: 02/07/96
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC14658

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	10	<1.000	10	100	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	103	52-127			
Bromobenzene	102	45-140			

MSD Lab ID: QC14659

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	10	9.6	96	75-125	4	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	104	52-127				
Bromobenzene	102	45-140				

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 RPD: 0 out of 1 outside limits
 Spike Recovery: 0 out of 2 outside limits



Lab #: 124365

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 25807
Units: mg/Kg
Diln Fac: 1

Prep Date: 02/07/96
Analysis Date: 02/07/96

LCS Lab ID: QC14655

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	9.5	10	95	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	104	52-127		
Bromobenzene	86	45-140		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits



4080 PIKE LANE, SUITE C
CONCORD, CA 94520
(510) 685-7852
(800) 423-7143

**CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST**

33962

ANALYSIS REQUEST

OTHER

Company Name: SECOR Phone #: (510) 686-9780

Company Address: Concord Site Location: San Lorenzo

Project Manager: Steve McLane Client Project ID: (#) 70074-001-02

I attest that the proper field sampling procedures were used during the collection of these samples. Sampler Name (Print): MARK LINDLEY

- 24 hr*
- BTEX 502 8020 with METBE
 - BTEX/Gas Hydrocarbons PID/FID with MPE
 - Hydrocarbons GC/FID Gas Diesel Screen
 - Hydrocarbon Profile (SMD/MSD) *116.1, 114.4*
 - Oil and Grease 413.1 413.2 SM-503
 - TPHWR 418.1 SM 503
 - EDB by 504 DBCP by 504
 - EPA 503.1 EPA 502.2
 - EPA 601 EPA 8010
 - EPA 602 EPA 8020
 - EPA 608 8080 PCB only
 - EPA 624/PPL 8240/TAL NBS (+15)
 - EPA 625/PPL 8270/TAL NBS (+25)
 - EPA 610 8310
 - EP TOX Metals Pesticides Herbicides
 - TCLP Metals VOA Semi-VOA Pest Herb
 - EPA Metals - Priority Pollutant TAL RCRA
 - CAM Metals TTLC STLC
 - Lead 239.2 200.7 7420 7421 6010
 - Organic Lead
 - Corrosivity Flash Point Reactivity

Field Sample ID	GTEL Lab # (Lab Use) only	# CONTAINERS	Matrix						Method Preserved						Sampling		
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	UNPREPARED	SERVED	OTHER (Specify)	DATE	TIME
1 UT-WW-4		1		X												12/1	
2 UT-WW-1		1		X												1/1	
3 UT-SD-1		1		X												1/1	
4 UT-EW-7		1		X												1/1	
5 UT-WW-2		1		X												1/1	
6 UT-F-1		1		X												1/1	
7 S-PL		1		X												1/1	
8 H-EW-6		1		X												2/1/96	

TAT
 Priority (24 hr)
 Expedited (48 hr)
 7 Business Days
 Other SEE RMKS
 Business Days

Special Handling
 GTEL Contact
 Quote/Contract #
 Confirmation #
 P.O. #

QA/QC Level
 Blue CLP Other

SPECIAL DETECTION LIMITS
> per Steve McLane

SPECIAL REPORTING REQUIREMENTS
 FAX

REMARKS:
24 hr TAT on TPHg/BTEX

Lab Use Only Lot #: _____ Storage Location: _____

Work Order #: _____

CUSTODY RECORD

Relinquished by Sampler: <u>MARK LINDLEY</u>	Date <u>2/7/96</u>	Time <u>1:30</u>	Received by: <u>[Signature]</u>
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory: Waybill #

APPENDIX H

Analytical Reports - Soil Borings



Superior

Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Chronology

Laboratory Number 21327

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW3-5.5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.05	01
MW2-5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.05	03
MW2-12.5	05/10/96	05/10/96	05/16/96	05/16/96	CE161.37	05
MW1-7.5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.05	08
MW1-10.5	05/10/96	05/10/96	05/15/96	05/15/96	CE151.05	09

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CE151.05-03	Method Blank	MB	Soil	05/15/96	05/15/96
CE151.05-06	Laboratory Spike	LS	Soil	05/15/96	05/15/96
CE151.05-07	Laboratory Spike Duplicate	LSD	Soil	05/15/96	05/15/96
CE151.05-30	#4	MS 21317-01	Soil	05/16/96	05/16/96
CE151.05-31	#4	MSD 21317-01	Soil	05/16/96	05/16/96
CE161.37-04	Method Blank	MB	Soil	05/16/96	05/16/96
CE161.37-18	Laboratory Spike	LS	Soil	05/16/96	05/16/96
CE161.37-24	MW-5@19.5	MS 21324-21	Soil	05/17/96	05/17/96
CE161.37-25	MW-5@19.5	MSD 21324-21	Soil	05/17/96	05/17/96



Superior

Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21327-01	MW3-5.5	Soil	1.0	-
21327-03	MW2-5	Soil	1.0	-
21327-05	MW2-12.5	Soil	40.0	-
21327-08	MW1-7.5	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	21327-01		21327-03		21327-05		21327-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	mg/kg		mg/kg		mg/kg		mg/kg	
Gasoline_Range	ND	1	ND	1	480	40	ND	1
>> Surrogate Recoveries (%) <<								
4-Bromofluorobenzene	101		93		142		91	



Superior

Analytical Laboratory

SECOR
Attn: STEVE McCABE

Project 70074-001-01
Reported on May 20, 1996

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21327-09	MW1-10.5	Soil	2.0	-

RESULTS OF ANALYSIS

Compound 21327-09
 Conc. RL
 mg/kg

Gasoline_Range 17 2

>> Surrogate Recoveries (%) <<
4-Bromofluorobenzene 136



Superior

Analytical Laboratory

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Quality Assurance and Control Data

Laboratory Number: 21327

Method Blank(s)

CE151.05-03	CE161.37-04
Conc. RL	Conc. RL
mg/kg	mg/kg

Gasoline_Range	ND	1	ND	1
>> Surrogate Recoveries (%) <<				
4-Bromofluorobenzene	102		104	



Superior

Analytical Laboratory

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Quality Assurance and Control Data

Laboratory Number: 21327

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
CE151.05 06 / 07 - Laboratory Control Spikes						
Gasoline_Range		10	9.9/9.8	99/98	65-135	1
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				129/116	50-150	
For Soil Matrix (mg/kg)						
CE161.37 18 / - Laboratory Control Spikes						
Gasoline_Range		10	7	70	65-135	
For Soil Matrix (mg/kg)						
CE151.05 30 / 31 - Sample Spiked: 21317 - 01						
Gasoline_Range	ND	10	7.2/8.1	72/81	65-135	12
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				108/113	50-150	
For Soil Matrix (mg/kg)						
CE161.37 24 / 25 - Sample Spiked: 21324 - 21						
Gasoline_Range	ND	8.4	6/7	71/80	65-135	12



Superior

Analytical Laboratory

Narrative:

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



TVH-Total Volatile Hydrocarbons

Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123652-004	UST-PIT	24761	12/08/95	12/14/95	12/14/95	

Analyte	Units	123652-004
Diln Fac:		1
Gasoline	ug/L	1500 Y
Mineral Spirits	ug/L	3800 Y
Surrogate		
Trifluorotoluene	%REC	104
Bromobenzene	%REC	112

Y: Sample exhibits fuel pattern which does not resemble standard



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8020
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123652-004	UST-PIT	24761	12/08/95	12/14/95	12/14/95	

Analyte	Units	123652-004
Diln Fac:		1
Benzene	ug/L	190
Toluene	ug/L	8.2
Ethylbenzene	ug/L	<0.5
m,p-Xylenes	ug/L	7
o-Xylene	ug/L	44
Surrogate		
Trifluorotoluene	%REC	104
Bromobenzene	%REC	104

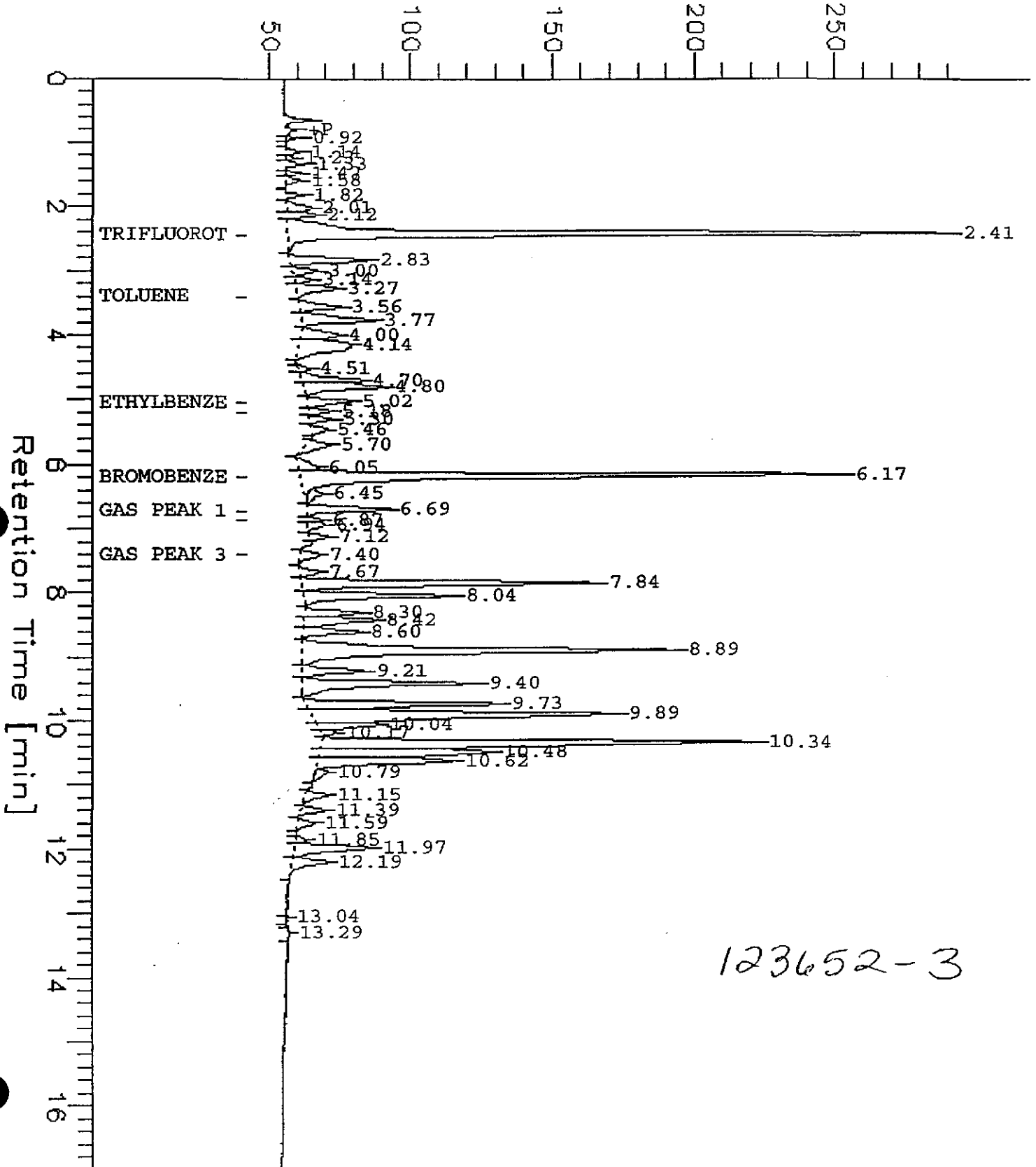
FileName : G:\GC04\348J016.raw
 Start Time : 0.00 min
 Scale Factor: -1

End Time : 17.00 min
 Plot Offset: 42 mV

Date : 12/14/95 6:41 PM
 Low Point : 42.18 mV
 Plot Scale: 250 mV

Page 1 of 1
 High Point : 292.18 mV

Response [mV]



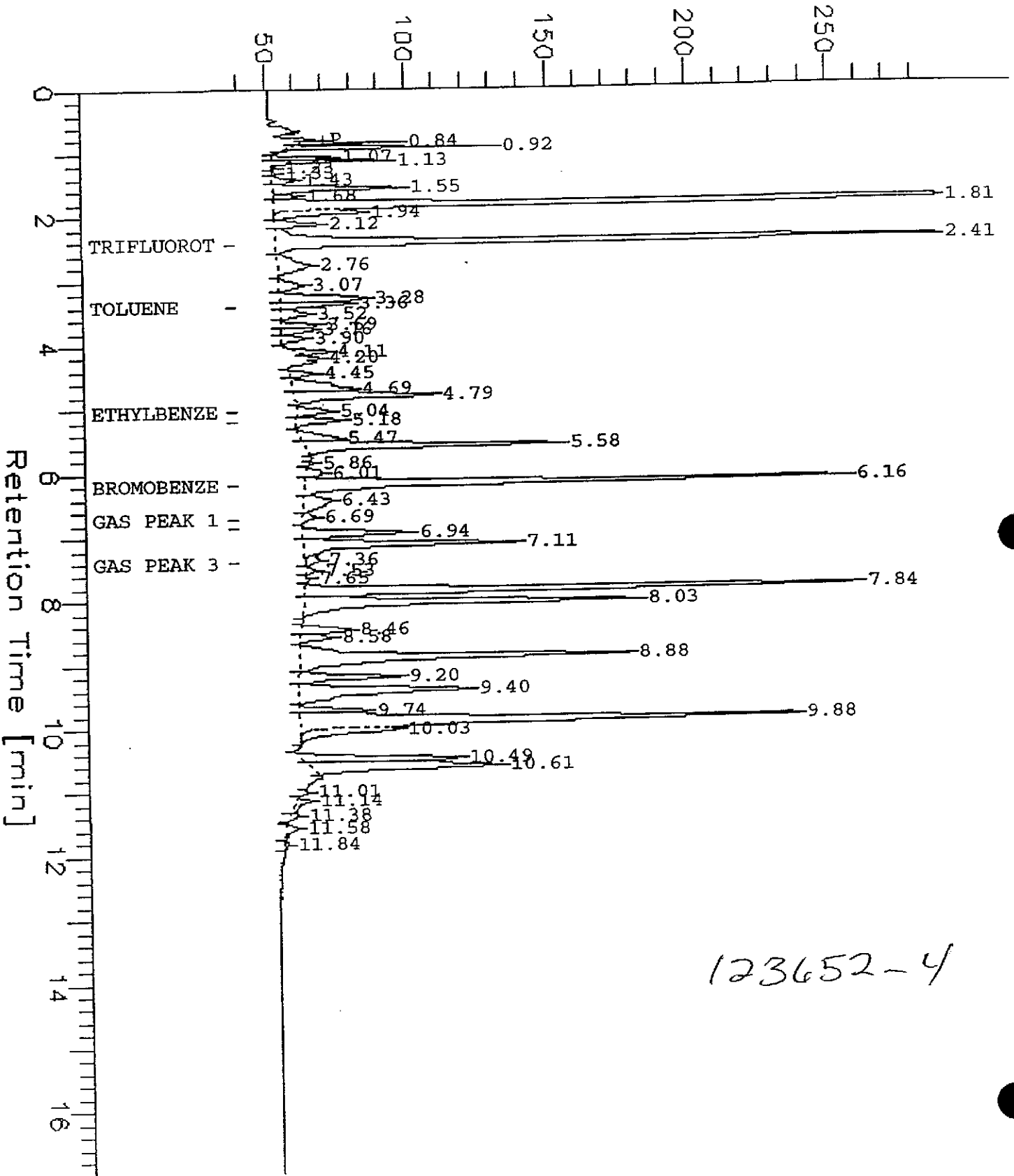
FileName : G:\GC04\347J032.raw
Start Time : 0.00 min
Scale Factor: -1

End Time : 17.00 min
Plot Offset: 39 mV

Date : 12/14/95 2:38 AM
Low Point : 38.78 mV
Plot Scale: 250 mV

Page 1 of 1
High Point : 288.78 mV

Response [mV]





Lab #: 123652

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client:	Secor	Analysis Method:	CA LUFT (EPA 8015M)
Project#:	70074-001-02	Prep Method:	EPA 5030
Location:	Bohannon Development		
METHOD BLANK			
Matrix:	Soil	Prep Date:	12/08/95
Batch#:	24743	Analysis Date:	12/08/95
Units:	mg/Kg		
Diln Fac:	1		

MB Lab ID: QC10425

Analyte	Result	
Gasoline	<1.0	
Mineral Spirits	<2.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	97	52-127
Bromobenzene	95	45-140



Lab #: 123652

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24743	Analysis Date: 12/08/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC10425

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	98	43-114
Bromobenzene	93	47-112



Lab #: 123652

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
METHOD BLANK			
Matrix: Soil		Prep Date: 12/14/95	
Batch#: 24756		Analysis Date: 12/14/95	
Units: mg/Kg			
Diln Fac: 1			

MB Lab ID: QC10488

Analyte	Result		
Gasoline	<1.0		
Mineral Spirits	<2.0		
Surrogate	%Rec	Recovery Limits	
Trifluorotoluene	99	52-127	
Bromobenzene	96	45-140	



Lab #: 123652

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/14/95
Batch#: 24756	Analysis Date: 12/14/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC10488

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	101	43-114
Bromobenzene	94	47-112



Lab #: 123652

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
METHOD BLANK			
Matrix: Water		Prep Date: 12/14/95	
Batch#: 24761		Analysis Date: 12/14/95	
Units: ug/L			
Diln Fac: 1			

MB Lab ID: QC10629

Analyte	Result	
Gasoline	<50	
Mineral Spirits	<100	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	101	69-120
Bromobenzene	104	70-122



Lab #: 123652

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Water	Prep Date: 12/14/95
Batch#: 24761	Analysis Date: 12/14/95
Units: ug/L	
Diln Fac: 1	

MB Lab ID: QC10629

Analyte	Result	
Benzene	<0.5	
Toluene	<0.5	
Ethylbenzene	<0.5	
m,p-Xylenes	<0.5	
o-Xylene	<0.5	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	99	58-130
Bromobenzene	97	62-131

Lab #: 123652

BATCH QC REPORT



Curtis & Tompkins, Ltd.
Page 1 of 1

TVH-Total Volatile Hydrocarbons			
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)		
Project#: 70074-001-02	Prep Method: EPA 5030		
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil	Prep Date: 12/08/95		
Batch#: 24743	Analysis Date: 12/08/95		
Units: mg/Kg			
Diln Fac: 1			

LCS Lab ID: QC10423

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10.1	10	101	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	108	52-127		
Bromobenzene	87	45-140		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



Lab #: 123652

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24743	Analysis Date: 12/08/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC10424

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	105.7	100	106	80-120
Toluene	106.7	100	107	80-120
Ethylbenzene	105.2	100	105	80-120
m,p-Xylenes	209.5	200	105	80-120
o-Xylene	114.1	100	114	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	101	43-114		
Bromobenzene	100	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123652

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 12/08/95
Lab ID: 123653-003	Received Date: 12/08/95
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24743	Analysis Date: 12/08/95
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC10426

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	10	4.1	11.8	77	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	107	52-127			
Bromobenzene	116	45-140			

MSD Lab ID: QC10427

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	10	12.8	87	75-125	8	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	104	52-127				
Bromobenzene	114	45-140				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



Lab #: 123652

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/14/95
Batch#: 24756	Analysis Date: 12/14/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10486

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	9.3	10	93	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	109	52-127		
Bromobenzene	110	45-140		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



Lab #: 123652

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/14/95
Batch#: 24756	Analysis Date: 12/14/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC10487

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	108.2	100	108	80-120
Toluene	109.1	100	109	80-120
Ethylbenzene	108.8	100	109	80-120
m,p-Xylenes	220	200	110	80-120
o-Xylene	114.8	100	115	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	99	43-114		
Bromobenzene	97	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123652

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 12/04/95
Lab ID: 123631-002	Received Date: 12/07/95
Matrix: Soil	Prep Date: 12/14/95
Batch#: 24756	Analysis Date: 12/14/95
Units: ug/Kg dry weight	Moisture: 8%
Diln Fac: 1	

MS Lab ID: QC10489

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Benzene	108.7	<5.435	115.8	107	75-125
Toluene	108.7	<5.435	113.8	105	75-125
Ethylbenzene	108.7	<5.435	107	98	75-125
m,p-Xylenes	217.4	<5.435	212.3	98	75-125
o-Xylene	108.7	<5.435	117.6	108	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	102	43-114			
Bromobenzene	102	47-112			

MSD Lab ID: QC10490

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Benzene	108.7	116.2	107	75-125	0	<20
Toluene	108.7	114.5	105	75-125	1	<20
Ethylbenzene	108.7	106.2	98	75-125	1	<20
m,p-Xylenes	217.4	215.3	99	75-125	1	<20
o-Xylene	108.7	114.6	105	75-125	3	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	100	43-114				
Bromobenzene	101	47-112				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits



Lab #: 123652

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Water	Prep Date: 12/14/95
Batch#: 24761	Analysis Date: 12/14/95
Units: ug/L	
Diln Fac: 1	

LCS Lab ID: QC10627

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	2107	2006	105	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	111	69-120		
Bromobenzene	110	70-122		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



Lab #: 123652

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Water	Prep Date: 12/14/95
Batch#: 24761	Analysis Date: 12/14/95
Units: ug/L	
Diln Fac: 1	

LCS Lab ID: QC10628

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	20	20	100	80-120
Toluene	20.2	20	101	80-120
Ethylbenzene	20.1	20	101	80-120
m,p-Xylenes	40.5	40	101	80-120
o-Xylene	21.3	20	107	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	99	58-130		
Bromobenzene	95	62-131		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123652

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 12/08/95
Lab ID: 123634-001	Received Date: 12/08/95
Matrix: Water	Prep Date: 12/14/95
Batch#: 24761	Analysis Date: 12/14/95
Units: ug/L	
Diln Fac: 1	

MS Lab ID: QC10634

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	2006	<50.00	2024	101	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	108	69-120			
Bromobenzene	111	70-122			

MSD Lab ID: QC10635

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	2006	2012	100	75-125	1	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	107	69-120				
Bromobenzene	107	70-122				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

123652

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: 1390 Willow Pass Rd, Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Behannon Development
 Location: 575 Paseo Grande
San Lorenzo, CA

Project # 70074-001-02 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis & Thompkins
 Turnaround Time 24 hr / Standard

Analysis Request

Sampler's Name Charles Melancon
 Sampler's Signature [Signature]

Sample ID	Date	Time	Matrix	HClD	TPHig/BTEX/WTPH-G 8015 (modified)/8020	TPHid/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (1:3)	TCLP Metals	CAM 17	Hydrocarbon Scan **	Number of Containers
1 S-WW-4	12-8-95		Soil		X											X	X	1
2 U-NW-4	12-8-95		Soil		X											X	X	1
3 U-SW-3	12-8-95		Soil		X											X	X	1
4 VST-Pit	12-8-95	3:00	Water		X												X	4
5 Sump-Pit	12-8-95	3:20	Water														X	1

(*) = 24 hr. TAT
X = Standard TAT

Special Instructions/Comments:
 ** Hydrocarbon Scan
 Includes:
 kerosene, TPH-d, and
 motor oil

Relinquished by: [Signature]
 Sign Charles Melancon
 Print Charles Melancon
 Company SECOR
 Time 3:45 Date 12-8-95

Received by: [Signature]
 Sign José Delgado
 Print José Delgado
 Company C&T
 Time 3:45 Date 12/8/95

Sample Receipt
 Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____
 Client: _____
 Client Contact: _____
 Client Phone: _____



Curtis & Tompkins, Ltd., Analytical Laboratories. Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 19-DEC-95
Lab Job Number: 123718
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Stacey K Morrison

Reviewed by:

Tracy B. Blye

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 123718
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

DATE SAMPLED: 12/14/95
DATE RECEIVED: 12/14/95
DATE EXTRACTED: 12/15/95
DATE ANALYZED: 12/15/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123718-001	U-EW-3	28	25
123718-002	S-EW-4	81	25
123718-METHOD	BLANK	ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	90



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123718-001	U-EW-3	24822	12/14/95	12/15/95	12/15/95	
123718-002	S-EW-4	24822	12/14/95	12/15/95	12/15/95	

Matrix: Soil

Analyte	Units	123718-001	123718-002
Diln Fac:		1	1
Gasoline	mg/Kg	11 Y	<1
Surrogate			
Trifluorotoluene	%REC	101	97
Bromobenzene	%REC	115	97

Y: Sample exhibits fuel pattern which does not resemble standard



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8020
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123718-001	U-EW-3	24822	12/14/95	12/15/95	12/15/95	
123718-002	S-EW-4	24822	12/14/95	12/15/95	12/15/95	

Matrix: Soil

Analyte	Units	123718-001	123718-002
Diln Fac:		1	1
Benzene	ug/Kg	140	<5
Toluene	ug/Kg	<5	<5
Ethylbenzene	ug/Kg	210	<5
m,p-Xylenes	ug/Kg	450	<5
o-Xylene	ug/Kg	50	<5
Surrogate			
Trifluorotoluene	%REC	108	97
Bromobenzene	%REC	101	93



Lab #: 123718

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/15/95
Batch#: 24822	Analysis Date: 12/15/95
Units: mg/Kg	
Diln Fac: 1	

MB Lab ID: QC10764

Analyte	Result	
Gasoline	<1.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	100	52-127
Bromobenzene	91	45-140



Lab #: 123718

BATCH QC REPORT

BTXE			
Client: Secor	Analysis Method: BTXE		
Project#: 70074-001-02	Prep Method: EPA 5030		
Location: Bohannon Development			
METHOD BLANK			
Matrix: Soil	Prep Date: 12/15/95		
Batch#: 24822	Analysis Date: 12/15/95		
Units: ug/Kg			
Diln Fac: 1			

MB Lab ID: QC10764

Analyte	Result		
Benzene	<5.0		
Toluene	<5.0		
Ethylbenzene	<5.0		
m,p-Xylenes	<5.0		
o-Xylene	<5.0		
Surrogate	%Rec	Recovery Limits	
Trifluorotoluene	99	43-114	
Bromobenzene	86	47-112	



Lab #: 123718

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/15/95
Batch#: 24822	Analysis Date: 12/15/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10762

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10.1	10	101	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	108	52-127		
Bromobenzene	106	45-140		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



Lab #: 123718

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/15/95
Batch#: 24822	Analysis Date: 12/15/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC10763

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	99.4	100	99	80-120
Toluene	100.3	100	100	80-120
Ethylbenzene	98.1	100	98	80-120
m,p-Xylenes	197	200	99	80-120
o-Xylene	105.5	100	106	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	97	43-114		
Bromobenzene	91	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123718

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 12/13/95
Lab ID: 123714-001	Received Date: 12/14/95
Matrix: Soil	Prep Date: 12/15/95
Batch#: 24822	Analysis Date: 12/15/95
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC10765

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	10	<1.000	9.8	98	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	109	52-127			
Bromobenzene	107	45-140			

MSD Lab ID: QC10766

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	10	10.5	105	75-125	7	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	108	52-127				
Bromobenzene	107	45-140				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



TEH-Tot Ext Hydrocarbons

Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: LUFT
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123718-001	U-EW-3	24814	12/14/95	12/14/95	12/14/95	
123718-002	S-EW-4	24814	12/14/95	12/14/95	12/14/95	

Matrix: Soil

Analyte	Units	123718-001	123718-002
Diln Fac:		1	1
Kerosene C10-C16	mg/Kg	24 YL	1.6YH
Diesel C12-C22	mg/Kg	14 YL	49 YH
Motor Oil C22-C50	mg/Kg	<25	74 YLH
Surrogate			
Hexacosane	%REC	98	86

Y: Sample exhibits fuel pattern which does not resemble standard

H: Heavier hydrocarbons than indicated standard

L: Lighter hydrocarbons than indicated standard



Lab #: 123718

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons			
Client: Secor		Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02		Prep Method: SHAKER TABLE	
Location: Bohannon Development			
METHOD BLANK			
Matrix: Soil		Prep Date: 12/14/95	
Batch#: 24814		Analysis Date: 12/15/95	
Units: mg/Kg			
Diln Fac: 1			

MB Lab ID: QC10735

Analyte	Result	
Kerosene Range	<1.0	*
Diesel Range	<1.0	
Motor Oil Range	<25	
Surrogate	%Rec	Recovery Limits
Hexacosane	86	60-140



Lab #: 123718

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: SHAKER TABLE

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Soil
 Batch#: 24814
 Units: mg/Kg
 Diln Fac: 1

Prep Date: 12/14/95
 Analysis Date: 12/15/95

BS Lab ID: QC10736

Analyte	Spike Added	BS	%Rec #	Limits
Diesel Range	51.3	68.1	133	60-140
Surrogate	%Rec	Limits		
Hexacosane	90	60-140		

BSD Lab ID: QC10737

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Diesel Range	51.3	70.3	137	60-140	3	<30
Surrogate	%Rec	Limits				
Hexacosane	93	60-140				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

Sample Name : 123718-001;50:5

Sample #: 24814

FileName : g:\gc11\chb\348b012.raw

Date : 12/14/95 10:13 PM

Method : GC11DUAL.ins

Time of Injection: 12/14/95

09:37 PM

Start Time : 0.00 min

End Time : 31.92 min

Low Point : 33.67 mV

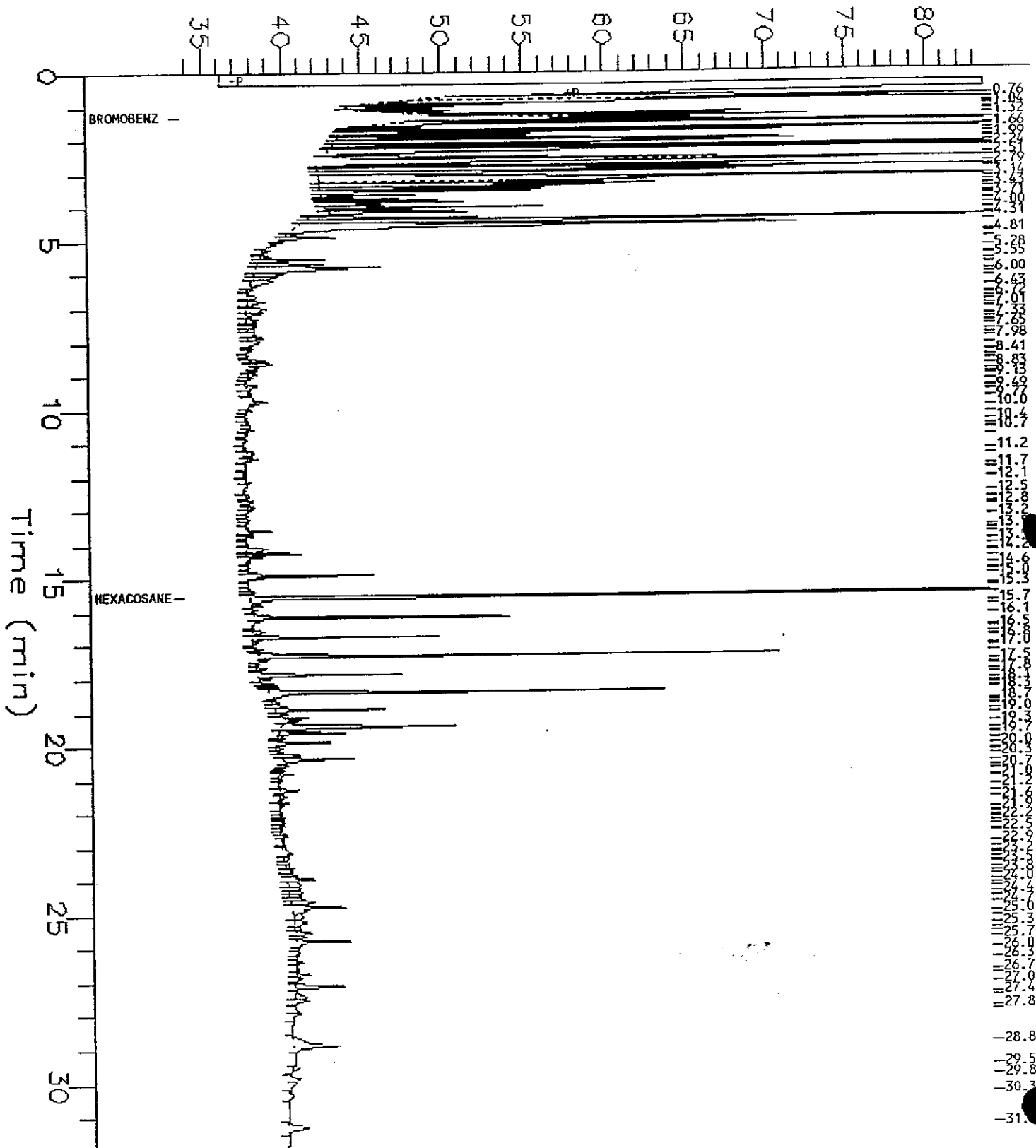
High Point : 83.67 mV

Scale Factor: -1

Plot Offset: 34 mV

Plot Scale: 50 mV

Response (mV)

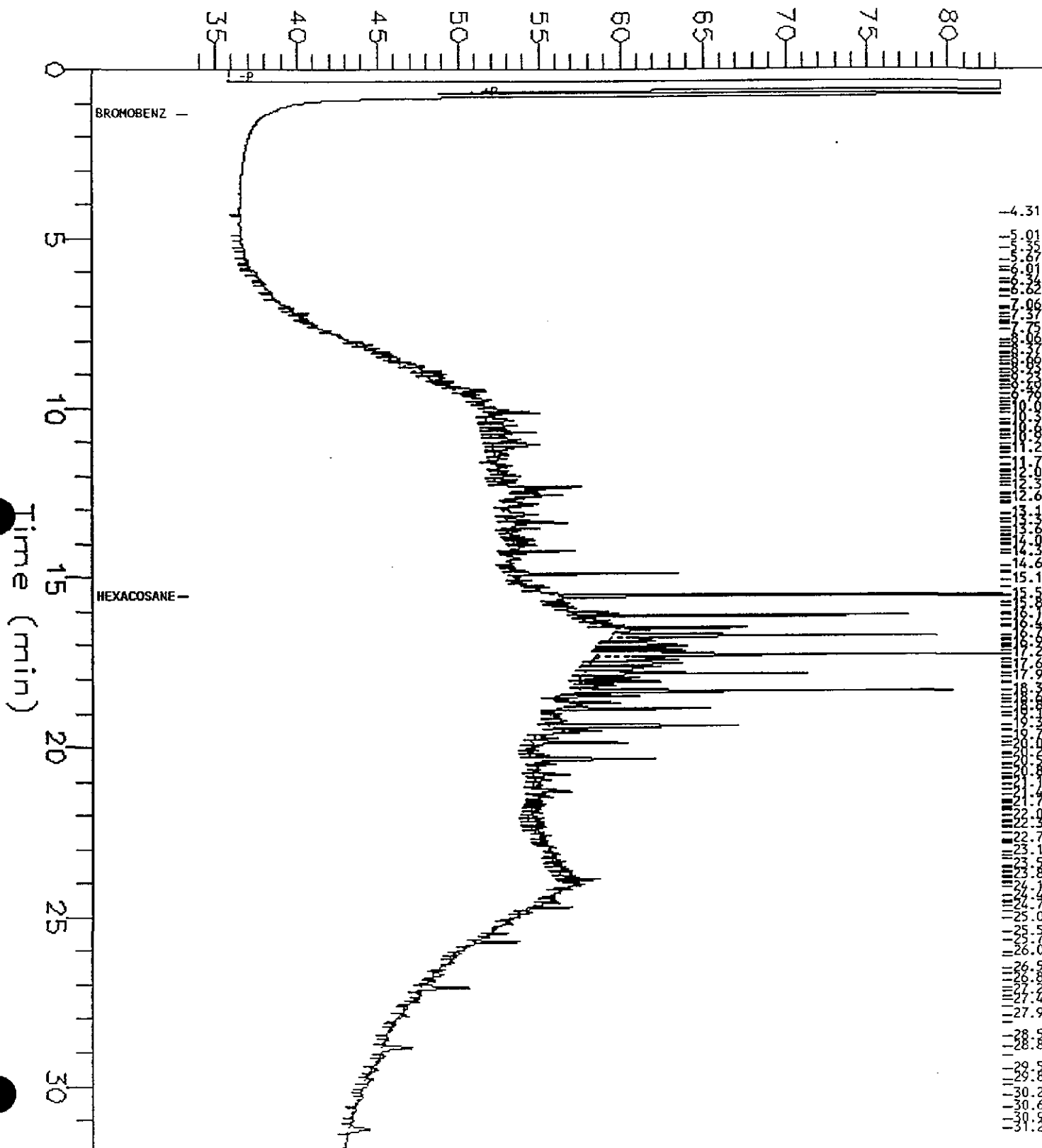


Sample Name : 123718-002;50:5
 FileName : g:\gc11\chb\348b013.raw
 Method : GC11DUAL.ins
 Start Time : 0.00 min
 Scale Factor : -1

End Time : 31.92 min
 Plot Offset: 33 mV

Sample #: 24814
 Date : 12/14/95 10:57 PM
 Time of Injection: 12/14/95 10:22 PM
 Low Point : 33.31 mV
 Plot Scale: 50 mV

Response (mV)





Curtis & Tompkins, Ltd.

SAMPLE ID: U-EW-3
LAB ID: 123718-001
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/14/95
DATE RECEIVED: 12/14/95
DATE REPORTED: 05/30/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	2.9	1	24828	EPA 6010A	12/18/95
Arsenic	6.3	0.24	1	24828	EPA 6010A	12/18/95
Barium	170	0.48	1	24828	EPA 6010A	12/18/95
Beryllium	0.72	0.097	1	24828	EPA 6010A	12/18/95
Cadmium	1.6	0.048	1	24828	EPA 6010A	12/18/95
Chromium (total)	41	0.48	1	24828	EPA 6010A	12/18/95
Cobalt	9.3	0.97	1	24828	EPA 6010A	12/18/95
Copper	18	0.48	1	24828	EPA 6010A	12/18/95
Lead	7.4	0.14	1	24828	EPA 6010A	12/18/95
Mercury	ND	0.10	1	24825	EPA 7471	12/15/95
Molybdenum	ND	0.97	1	24828	EPA 6010A	12/18/95
Nickel	44	0.97	1	24828	EPA 6010A	12/18/95
Selenium	0.32	0.24	1	24828	EPA 6010A	12/18/95
Silver	ND	0.48	1	24828	EPA 6010A	12/18/95
Thallium	ND	0.24	1	24828	EPA 6010A	12/18/95
Vanadium	35	0.48	1	24828	EPA 6010A	12/18/95
Zinc	41	0.97	1	24828	EPA 6010A	12/18/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: S-EW-4
LAB ID: 123718-002
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/14/95
DATE RECEIVED: 12/14/95
DATE REPORTED: 12/19/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24828	EPA 6010A	12/18/95
Arsenic	7.0	0.24	24828	EPA 6010A	12/18/95
Barium	160	0.48	24828	EPA 6010A	12/18/95
Beryllium	0.82	0.096	24828	EPA 6010A	12/18/95
Cadmium	1.4	0.048	24828	EPA 6010A	12/18/95
Chromium (total)	46	0.48	24828	EPA 6010A	12/18/95
Cobalt	13	0.96	24828	EPA 6010A	12/18/95
Copper	19	0.48	24828	EPA 6010A	12/18/95
Lead	7.7	0.14	24828	EPA 6010A	12/18/95
Mercury	ND	0.10	24825	EPA 7471	12/15/95
Molybdenum	ND	0.96	24828	EPA 6010A	12/18/95
Nickel	51	0.96	24828	EPA 6010A	12/18/95
Selenium					
Silver	ND	0.48	24828	EPA 6010A	12/18/95
Thallium	ND	0.24	24828	EPA 6010A	12/18/95
Vanadium	43	0.48	24828	EPA 6010A	12/18/95
Zinc	47	0.96	24828	EPA 6010A	12/18/95

ND = Not detected at or above reporting limit

CLIENT: Secor
JOB NUMBER: 123718

DATE REPORTED: 12/19/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24828	EPA 6010A	12/18/95
Arsenic	ND	0.25	mg/Kg	24828	EPA 6010A	12/18/95
Barium	ND	0.5	mg/Kg	24828	EPA 6010A	12/18/95
Beryllium	ND	0.1	mg/Kg	24828	EPA 6010A	12/18/95
Cadmium	ND	0.05	mg/Kg	24828	EPA 6010A	12/18/95
Chromium (total)	ND	0.5	mg/Kg	24828	EPA 6010A	12/18/95
Cobalt	ND	1	mg/Kg	24828	EPA 6010A	12/18/95
Copper	ND	0.5	mg/Kg	24828	EPA 6010A	12/18/95
Lead	ND	0.15	mg/Kg	24828	EPA 6010A	12/18/95
Mercury	ND	0.1	mg/Kg	24825	EPA 7471	12/15/95
Molybdenum	ND	1	mg/Kg	24828	EPA 6010A	12/18/95
Nickel	ND	1	mg/Kg	24828	EPA 6010A	12/18/95
Selenium	ND	0.25	mg/Kg	24828	EPA 6010A	12/18/95
Silver	ND	0.5	mg/Kg	24828	EPA 6010A	12/18/95
Thallium	ND	0.25	mg/Kg	24828	EPA 6010A	12/18/95
Vanadium	ND	0.5	mg/Kg	24828	EPA 6010A	12/18/95
Zinc	ND	1	mg/Kg	24828	EPA 6010A	12/18/95

ND = Not Detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 123718

DATE REPORTED: 12/19/95

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	579	521	ug/L	116	104	110	11	24828	EPA 6010A	12/18/95
Arsenic	2000	1770	1770	ug/L	89	89	89	0	24828	EPA 6010A	12/18/95
Barium	2000	1970	1930	ug/L	99	97	98	2	24828	EPA 6010A	12/18/95
Beryllium	50	50.5	49.9	ug/L	101	100	101	1	24828	EPA 6010A	12/18/95
Cadmium	50	48.4	48.3	ug/L	97	97	97	0	24828	EPA 6010A	12/18/95
Chromium (total)	200	193	190	ug/L	97	95	96	2	24828	EPA 6010A	12/18/95
Cobalt	500	472	465	ug/L	94	93	94	2	24828	EPA 6010A	12/18/95
Copper	250	247	241	ug/L	99	96	98	3	24828	EPA 6010A	12/18/95
Lead	500	459	461	ug/L	92	92	92	0	24828	EPA 6010A	12/18/95
Mercury	5	5.337	4.795	ug/L	107	96	102	11	24825	EPA 7470	12/15/95
Molybdenum	400	377	370	ug/L	94	93	94	2	24828	EPA 6010A	12/18/95
Nickel	500	480	475	ug/L	96	95	96	1	24828	EPA 6010A	12/18/95
Selenium	2000	1650	1650	ug/L	83	83	83	0	24828	EPA 6010A	12/18/95
Silver	100	95.7	94.9	ug/L	96	95	96	1	24828	EPA 6010A	12/18/95
Thallium	2000	1870	1870	ug/L	94	94	94	0	24828	EPA 6010A	12/18/95
Vanadium	500	481	473	ug/L	96	95	96	2	24828	EPA 6010A	12/18/95
Zinc	500	439	432	ug/L	88	86	87	2	24828	EPA 6010A	12/18/95

123714

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
 Address: 1390 Willow Pass Bdy, Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Bohannon Development
 Location: 575 Paseo Grande
San Lorenzo, CA

Project # 70074-001-02 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis & Thompkins
 Turnaround Time 8 hrs / standard

Analysis Request

Sampler's Name Charles Melancon
 Sampler's Signature Charles Melancon

Sample ID	Date	Time	Matrix	HCID	TPHc/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624-8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625-8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
U-EW-3	12-14-95		Soil		<input checked="" type="checkbox"/>											XX CAM 17 Hydrocarbon SCAN XX	1
S-EW-4	"		"		<input checked="" type="checkbox"/>												1

Special Instructions/Comments:
 ** Hydrocarbon Scan
 Includes:
 Kerosene, TPH-d, and
 Motor Oil

Relinquished by: Charles Melancon
 Sign Charles Melancon
 Print Charles Melancon
 Company SECOR
 Time 1540 hrs Date 12-13-95

Relinquished by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Received by: Subramanian
 Sign _____
 Print _____
 Company _____
 Time 1540 hrs Date 12-14/95

Received by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Sample Receipt

Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____

Client: _____
 Client Contact: _____
 Client Phone: _____



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Road
Concord, CA 94520

Date: 15-FEB-96
Lab Job Number: 124343
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Reviewed by:

This package may be reproduced only in its entirety.

LABORATORY NUMBER: 124343
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

DATE SAMPLED: 02/06/96
DATE RECEIVED: 02/06/96
DATE ANALYZED: 02/12/96
DATE REPORTED: 02/15/96
BATCH NO: 25896

=====

ANALYSIS: TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
ANALYSIS METHOD: EPA 418.1

=====

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
124343-001	U-EW-4	ND	mg/Kg	25
124343-002	U-EW-5	ND	mg/Kg	25
124343-003	U-SW-4	ND	mg/Kg	25
124343-004	UT-SW-1	102	mg/Kg	25
124343-005	UT-WW-1	46	mg/Kg	25
METHOD BLANK	N/A	ND	mg/Kg	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: MS/MSD of 124343-002

=====

RPD, %	<1
RECOVERY, %	109

=====

TEH-Tot. Ext. Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: LUFT
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124343-001	U-EW-4	25824	02/06/96	02/08/96	02/13/96	
124343-002	U-EW-5	25824	02/06/96	02/08/96	02/13/96	
124343-003	U-SW-4	25824	02/06/96	02/08/96	02/13/96	
124343-004	UT-SW-1	25824	02/06/96	02/08/96	02/13/96	

Analyte	Units	124343-001	124343-002	124343-003	124343-004
Diln Fac:		1	1	1	1
Kerosene Range	mg/Kg	<1	1	4.9	<1
Diesel Range	mg/Kg	<1	<1	<1	9.7YH
Motor Oil Range	mg/Kg	<25	<25	<25	260 YH
Surrogate					
Hexacosane	%REC	72	74	78	67

Y: Sample exhibits fuel pattern which does not resemble standard
H: Heavier hydrocarbons than indicated standard

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: LUFT
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124343-005	UT-WW-1	25824	02/06/96	02/08/96	02/13/96	

Analyte	Units	124343-005
Diln Fac:		1
Kerosene Range	mg/Kg	<1
Diesel Range	mg/Kg	3.1YH
Motor Oil Range	mg/Kg	89 YH
Surrogate		
Hexacosane	%REC	74

Y: Sample exhibits fuel pattern which does not resemble standard
 H: Heavier hydrocarbons than indicated standard



Lab #: 124343

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons		
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)	
Project#: 70074-001-02	Prep Method: LUFT	
Location: Bohannon Development		
METHOD BLANK		
Matrix: Soil	Prep Date:	02/08/96
Batch#: 25824	Analysis Date:	02/12/96
Units: mg/Kg		
Diin Fac: 1		

MB Lab ID: QC14717

Analyte	Result	
Kerosene Range	<1.0	
Diesel Range	<1.0	
Motor Oil Range	<25	
Surrogate	%Rec	Recovery Limits
Hexacosane	82	60-140



Lab #: 124343

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: LUFT
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 02/08/96
Batch#: 25824	Analysis Date: 02/12/96
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC14718

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	43	49.5	87	60-140
Surrogate	%Rec	Limits		
Hexacosane	86	60-140		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: LUFT
Location: Bohannon Development	
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 02/07/96
Lab ID: 124365-002	Received Date: 02/07/96
Matrix: Soil	Prep Date: 02/08/96
Batch#: 25824	Analysis Date: 02/12/96
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC14719

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Diesel Range	49.5	<1.000	39.8	80	60-140
Surrogate	%Rec	Limits			
Hexacosane	77	60-140			

MSD Lab ID: QC14720

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Diesel Range	49.5	38	77	60-140	5	<30
Surrogate	%Rec	Limits				
Hexacosane	62	60-140				

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 RPD: 0 out of 1 outside limits
 Spike Recovery: 0 out of 2 outside limits



SAMPLE ID: U-EW-4
 LAB ID: 124343-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 02/06/96
 DATE RECEIVED: 02/06/96
 DATE REPORTED: 02/15/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	3.0	1	25871	EPA 6010A	02/12/96
Arsenic	3.8	0.25	1	25871	EPA 6010A	02/12/96
Barium	120	0.50	1	25871	EPA 6010A	02/12/96
Beryllium	0.61	0.099	1	25871	EPA 6010A	02/12/96
Cadmium	0.66	0.050	1	25871	EPA 6010A	02/12/96
Chromium (total)	35	0.50	1	25871	EPA 6010A	02/12/96
Cobalt	7.2	0.99	1	25871	EPA 6010A	02/12/96
Copper	11	0.50	1	25871	EPA 6010A	02/12/96
Lead	5.4	0.15	1	25871	EPA 6010A	02/12/96
Mercury	ND	0.091	1	25805	EPA 7471	02/07/96
Molybdenum	ND	0.99	1	25871	EPA 6010A	02/12/96
Nickel	41	0.99	1	25871	EPA 6010A	02/12/96
Selenium	ND	0.25	1	25871	EPA 6010A	02/12/96
Silver	ND	0.50	1	25871	EPA 6010A	02/12/96
Thallium	ND	0.25	1	25871	EPA 6010A	02/12/96
Vanadium	28	0.50	1	25871	EPA 6010A	02/12/96
Zinc	33	0.99	1	25871	EPA 6010A	02/12/96

ND = Not detected at or above reporting limit



SAMPLE ID: U-EW-5
LAB ID: 124343-002
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 02/06/96
DATE RECEIVED: 02/06/96
DATE REPORTED: 02/15/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	3.0	1	25871	EPA 6010A	02/12/96
Arsenic	2.6	0.25	1	25871	EPA 6010A	02/12/96
Barium	75	0.50	1	25871	EPA 6010A	02/12/96
Beryllium	0.42	0.10	1	25871	EPA 6010A	02/12/96
Cadmium	0.44	0.050	1	25871	EPA 6010A	02/12/96
Chromium (total)	20	0.50	1	25871	EPA 6010A	02/12/96
Cobalt	4.9	1.0	1	25871	EPA 6010A	02/12/96
Copper	5.6	0.50	1	25871	EPA 6010A	02/12/96
Lead	3.6	0.15	1	25871	EPA 6010A	02/12/96
Mercury	ND	0.10	1	25805	EPA 7471	02/07/96
Molybdenum	ND	1.0	1	25871	EPA 6010A	02/12/96
Nickel	22	1.0	1	25871	EPA 6010A	02/12/96
Selenium	ND	0.25	1	25871	EPA 6010A	02/12/96
Silver	ND	0.50	1	25871	EPA 6010A	02/12/96
Thallium	ND	0.25	1	25871	EPA 6010A	02/12/96
Vanadium	17	0.50	1	25871	EPA 6010A	02/12/96
Zinc	21	1.0	1	25871	EPA 6010A	02/12/96

ND = Not detected at or above reporting limit



SAMPLE ID: U-SW-4
 LAB ID: 124343-003
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 02/06/96
 DATE RECEIVED: 02/06/96
 DATE REPORTED: 02/15/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	3.0	1	25871	EPA 6010A	02/12/96
Arsenic	3.9	0.25	1	25871	EPA 6010A	02/12/96
Barium	130	0.50	1	25871	EPA 6010A	02/12/96
Beryllium	0.81	0.10	1	25871	EPA 6010A	02/12/96
Cadmium	0.94	0.050	1	25871	EPA 6010A	02/12/96
Chromium (total)	40	0.50	1	25871	EPA 6010A	02/12/96
Cobalt	9.4	1.0	1	25871	EPA 6010A	02/12/96
Copper	16	0.50	1	25871	EPA 6010A	02/12/96
Lead	6.6	0.15	1	25871	EPA 6010A	02/12/96
Mercury	ND	0.095	1	25805	EPA 7471	02/07/96
Molybdenum	ND	1.0	1	25871	EPA 6010A	02/12/96
Nickel	44	1.0	1	25871	EPA 6010A	02/12/96
Selenium	ND	0.25	1	25871	EPA 6010A	02/12/96
Silver	ND	0.50	1	25871	EPA 6010A	02/12/96
Thallium	ND	0.25	1	25871	EPA 6010A	02/12/96
Vanadium	38	0.50	1	25871	EPA 6010A	02/12/96
Zinc	43	1.0	1	25871	EPA 6010A	02/12/96

ND = Not detected at or above reporting limit



SAMPLE ID: UT-SW-1
LAB ID: 124343-004
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 02/06/96
DATE RECEIVED: 02/06/96
DATE REPORTED: 02/15/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	2.9	1	25871	EPA 6010A	02/12/96
Arsenic	3.3	0.24	1	25871	EPA 6010A	02/12/96
Barium	100	0.48	1	25871	EPA 6010A	02/12/96
Beryllium	0.46	0.096	1	25871	EPA 6010A	02/12/96
Cadmium	0.59	0.048	1	25871	EPA 6010A	02/12/96
Chromium (total)	27	0.48	1	25871	EPA 6010A	02/12/96
Cobalt	6.0	0.96	1	25871	EPA 6010A	02/12/96
Copper	13	0.48	1	25871	EPA 6010A	02/12/96
Lead	31	0.14	1	25871	EPA 6010A	02/12/96
Mercury	0.13	0.10	1	25805	EPA 7471	02/07/96
Molybdenum	ND	0.96	1	25871	EPA 6010A	02/12/96
Nickel	27	0.96	1	25871	EPA 6010A	02/12/96
Selenium	ND	0.24	1	25871	EPA 6010A	02/12/96
Silver	ND	0.48	1	25871	EPA 6010A	02/12/96
Thallium	ND	0.24	1	25871	EPA 6010A	02/12/96
Vanadium	19	0.48	1	25871	EPA 6010A	02/12/96
Zinc	58	0.96	1	25871	EPA 6010A	02/12/96

ND = Not detected at or above reporting limit



SAMPLE ID: UT-WW-1
 LAB ID: 124343-005
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 02/06/96
 DATE RECEIVED: 02/06/96
 DATE REPORTED: 02/15/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	2.9	1	25871	EPA 6010A	02/12/96
Arsenic	3.3	0.24	1	25871	EPA 6010A	02/12/96
Barium	47	0.48	1	25871	EPA 6010A	02/12/96
Beryllium	0.51	0.096	1	25871	EPA 6010A	02/12/96
Cadmium	0.72	0.048	1	25871	EPA 6010A	02/12/96
Chromium (total)	32	0.48	1	25871	EPA 6010A	02/12/96
Cobalt	11	0.96	1	25871	EPA 6010A	02/12/96
Copper	36	0.48	1	25871	EPA 6010A	02/12/96
Lead	3.9	0.14	1	25871	EPA 6010A	02/12/96
Mercury	0.69	0.091	1	25805	EPA 7471	02/07/96
Molybdenum	ND	0.96	1	25871	EPA 6010A	02/12/96
Nickel	25	0.96	1	25871	EPA 6010A	02/12/96
Selenium	ND	0.24	1	25871	EPA 6010A	02/12/96
Silver	ND	0.48	1	25871	EPA 6010A	02/12/96
Thallium	ND	0.24	1	25871	EPA 6010A	02/12/96
Vanadium	34	0.48	1	25871	EPA 6010A	02/12/96
Zinc	28	0.96	1	25871	EPA 6010A	02/12/96

ND = Not detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 124343

DATE REPORTED: 02/15/96

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	478	466	ug/L	96	93	95	3	25871	EPA 6010A	02/12/96
Arsenic	2000	1830	1800	ug/L	92	90	91	2	25871	EPA 6010A	02/12/96
Barium	2000	1930	1890	ug/L	97	95	96	2	25871	EPA 6010A	02/12/96
Beryllium	50	50.5	49.5	ug/L	101	99	100	2	25871	EPA 6010A	02/12/96
Cadmium	50	48.6	48.1	ug/L	97	96	97	1	25871	EPA 6010A	02/12/96
Chromium (total)	200	183	179	ug/L	92	90	91	2	25871	EPA 6010A	02/12/96
Cobalt	500	451	443	ug/L	90	89	90	2	25871	EPA 6010A	02/12/96
Copper	250	239	232	ug/L	96	93	95	3	25871	EPA 6010A	02/12/96
Lead	500	461	455	ug/L	92	91	92	1	25871	EPA 6010A	02/12/96
Mercury	5	5.3	5.371	ug/L	106	107	107	1	25805	EPA 7470	02/07/96
Molybdenum	400	367	359	ug/L	92	90	91	2	25871	EPA 6010A	02/12/96
Nickel	500	474	463	ug/L	95	93	94	2	25871	EPA 6010A	02/12/96
Selenium	2000	1800	1780	ug/L	90	89	90	1	25871	EPA 6010A	02/12/96
Silver	100	98.3	95.4	ug/L	98	95	97	3	25871	EPA 6010A	02/12/96
Thallium	2000	1890	1870	ug/L	95	94	95	1	25871	EPA 6010A	02/12/96
Vanadium	500	466	456	ug/L	93	91	92	2	25871	EPA 6010A	02/12/96
Zinc	500	468	460	ug/L	94	92	93	2	25871	EPA 6010A	02/12/96



CLIENT: Secor
JOB NUMBER: 124343

DATE REPORTED: 02/15/96

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	25871	EPA 6010A	02/12/96
Arsenic	ND	0.25	mg/Kg	25871	EPA 6010A	02/12/96
Barium	ND	0.5	mg/Kg	25871	EPA 6010A	02/12/96
Beryllium	ND	0.1	mg/Kg	25871	EPA 6010A	02/12/96
Cadmium	ND	0.05	mg/Kg	25871	EPA 6010A	02/12/96
Chromium (total)	ND	0.5	mg/Kg	25871	EPA 6010A	02/12/96
Cobalt	ND	1	mg/Kg	25871	EPA 6010A	02/12/96
Copper	ND	0.5	mg/Kg	25871	EPA 6010A	02/12/96
Lead	ND	0.15	mg/Kg	25871	EPA 6010A	02/12/96
Mercury	ND	0.1	mg/Kg	25805	EPA 7471	02/07/96
Molybdenum	ND	1	mg/Kg	25871	EPA 6010A	02/12/96
Nickel	ND	1	mg/Kg	25871	EPA 6010A	02/12/96
Selenium	ND	0.25	mg/Kg	25871	EPA 6010A	02/12/96
Silver	ND	0.5	mg/Kg	25871	EPA 6010A	02/12/96
Thallium	ND	0.25	mg/Kg	25871	EPA 6010A	02/12/96
Vanadium	ND	0.5	mg/Kg	25871	EPA 6010A	02/12/96
Zinc	ND	1	mg/Kg	25871	EPA 6010A	02/12/96

ND = Not Detected at or above reporting limit



TVH-Total Volatile Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124343-001	U-EW-4	25778	02/06/96	02/06/96	02/06/96	
124343-002	U-EW-5	25778	02/06/96	02/06/96	02/06/96	
124343-003	U-SW-4	25778	02/06/96	02/06/96	02/06/96	
124343-004	UT-SW-1	25778	02/06/96	02/06/96	02/06/96	

Analyte	Units	124343-001	124343-002	124343-003	124343-004
Diln Fac:		1	1	1	1
Gasoline	mg/Kg	<1	<1	4.7Y	<1
Surrogate					
Trifluorotoluene	%REC	93	98	98	99
Bromobenzene	%REC	101	102	111	105

Y: Sample exhibits fuel pattern which does not resemble standard



BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
124343-001	U-EW-4	25778	02/06/96	02/06/96	02/06/96	
124343-002	U-EW-5	25778	02/06/96	02/06/96	02/06/96	
124343-003	U-SW-4	25778	02/06/96	02/06/96	02/06/96	
124343-004	UT-SW-1	25778	02/06/96	02/06/96	02/06/96	

Analyte	Units	124343-001	124343-002	124343-003	124343-004
Diln Fac:		1	1	1	1
Benzene	ug/Kg	<5	<5	33	<5
Toluene	ug/Kg	<5	<5	<5	<5
Ethylbenzene	ug/Kg	<5	<5	<5	<5
m,p-Xylenes	ug/Kg	<5	<5	<5	<5
o-Xylene	ug/Kg	<5	<5	<5	<5
Surrogate					
Trifluorotoluene	%REC	96	102	103	97
Bromobenzene	%REC	103	105	106	101



Lab #: 123632

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client:	Secor	Analysis Method:	CA LUFT (EPA 8015M)
Project#:	70074-001-02	Prep Method:	EPA 5030
Location:	Bohannon Development		
METHOD BLANK			
Matrix:	Soil	Prep Date:	12/08/95
Batch#:	24725	Analysis Date:	12/08/95
Units:	mg/Kg		
Diln Fac:	1		

MB Lab ID: QC10353

Analyte	Result		
Gasoline	<1.0	✓	
Mineral Spirits	<2.0	✓	
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	96	✓	52-127
Bromobenzene	91		45-140



Lab #: 123632

BATCH QC REPORT

BTXE			
Client: Secor		Analysis Method: BTXE	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
METHOD BLANK			
Matrix: Soil		Prep Date: 12/08/95	
Batch#: 24725		Analysis Date: 12/08/95	
Units: ug/Kg			
Diln Fac: 1			

MB Lab ID: QC10353

Analyte	Result		
Benzene	<5.0		
Toluene	<5.0		
Ethylbenzene	<5.0	✓	
m,p-Xylenes	<5.0		
o-Xylene	<5.0		
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	98	✓	43-114
Bromobenzene	91		47-112



Lab #: 123632

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24725	Analysis Date: 12/08/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10351

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	9.3	10	93 ✓	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	105 ✓	52-127		
Bromobenzene	96	45-140		

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 Spike Recovery: 0 out of 1 outside limits



Lab #: 123632

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24725	Analysis Date: 12/08/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC10352

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	102.1	100	102	80-120
Toluene	103.3	100	103	80-120
Ethylbenzene	100.2	100	100	80-120
m,p-Xylenes	202.2	200	101	80-120
o-Xylene	107.5	100	108	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	98	43-114		
Bromobenzene	94	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123632

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: U-NW-2	Sample Date: 12/07/95
Lab ID: 123632-001	Received Date: 12/07/95
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24725	Analysis Date: 12/08/95
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC10354

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	10	<1.000	9.5	95 ✓	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	105	52-127			
Bromobenzene	103	45-140			

MSD Lab ID: QC10355

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	10	8.7	87 ✓	75-125	9 ✓	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	104 ✓	52-127				
Bromobenzene	102	45-140				

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 RPD: 0 out of 1 outside limits
 Spike Recovery: 0 out of 2 outside limits



TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123632-001	U-NW-2	24746	12/07/95	12/08/95	12/11/95	
123632-002	U-NW-3	24746	12/07/95	12/08/95	12/10/95	
123632-003	U-WW-2	24746	12/07/95	12/08/95	12/10/95	
123632-004	U-WW-3	24746	12/07/95	12/08/95	12/10/95	

Matrix: Soil

Analyte	Units	123632-001	123632-002	123632-003	123632-004
Diln Fac:		1	1	1	1
Kerosene C10-C16	mg/Kg	<1	2.5Y	1.6Y	<1
Diesel C12-C22	mg/Kg	2.6Y	<1	1.8Y	<1
Motor Oil C22-C50	mg/Kg	<25	<25	<25	<25
Surrogate					
Hexacosane	%REC	122	99	110	104

Y: Sample exhibits fuel pattern which does not resemble standard



TEH-Tot Ext Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: LUFT

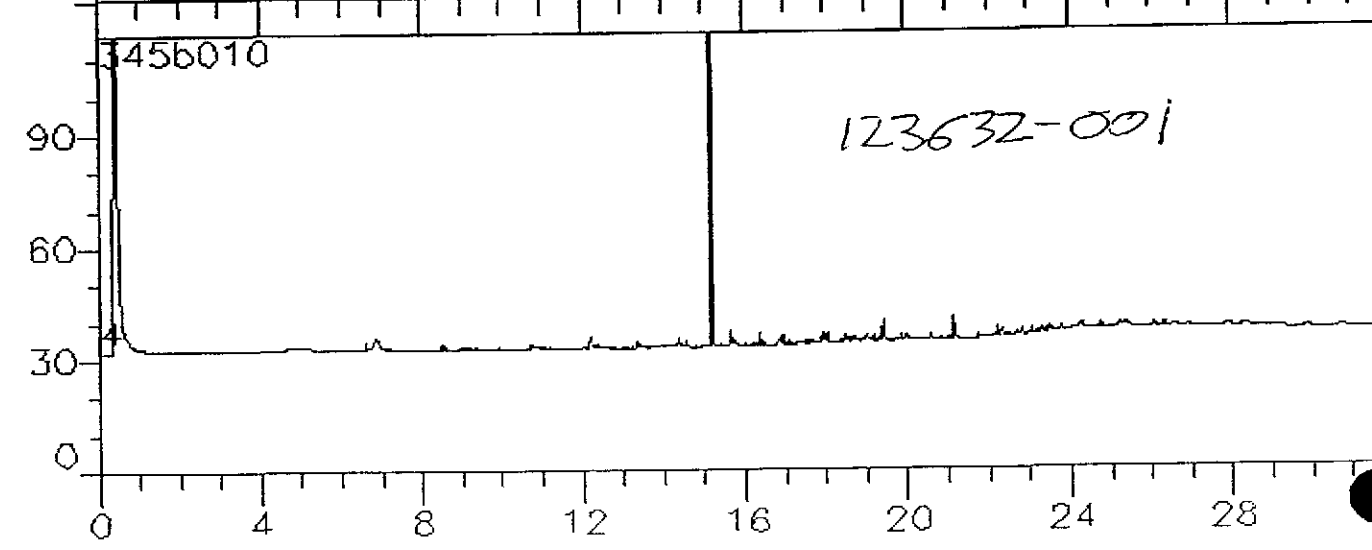
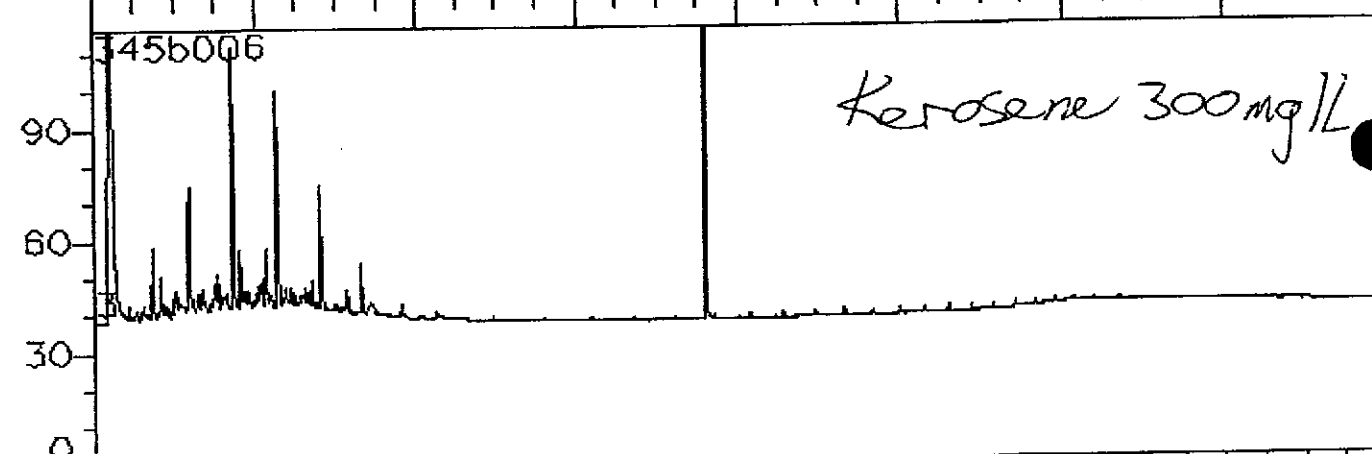
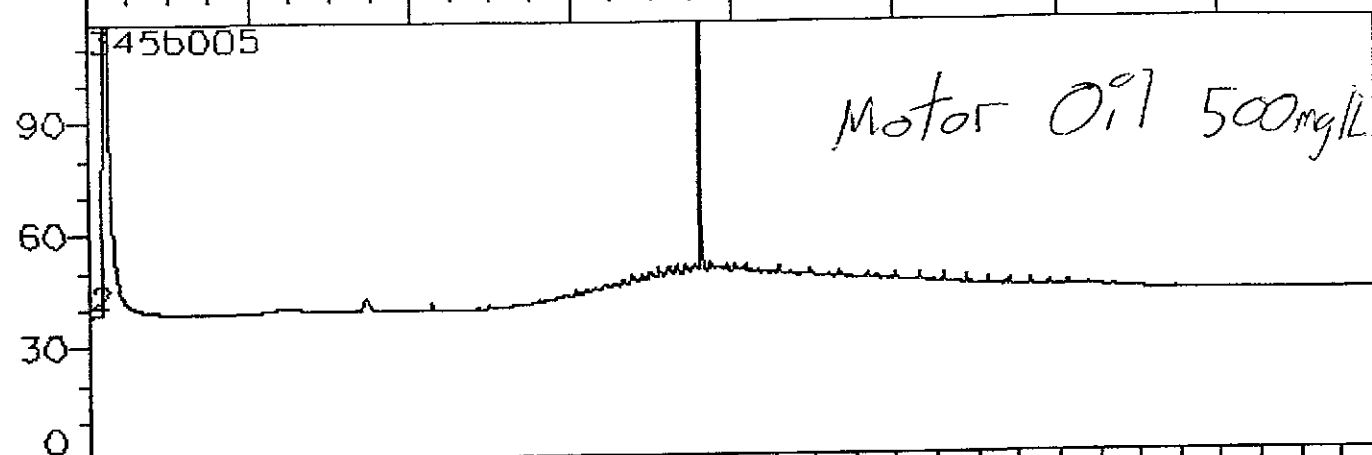
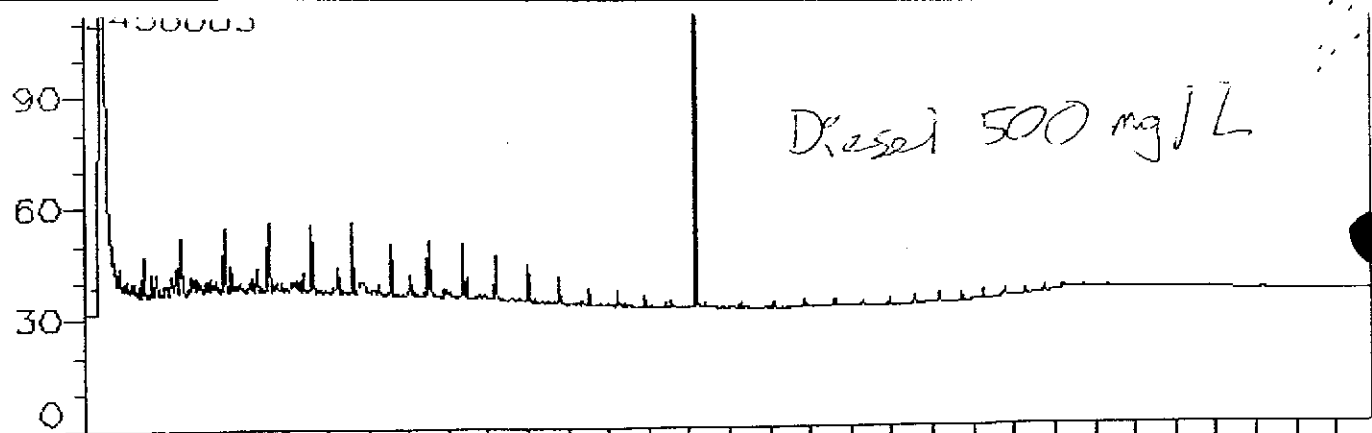
Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123632-005	U-EW-2	24746	12/07/95	12/08/95	12/10/95	
123632-006	U-F-1	24746	12/07/95	12/08/95	12/10/95	
123632-007	U-EW-1A	24746	12/07/95	12/08/95	12/11/95	

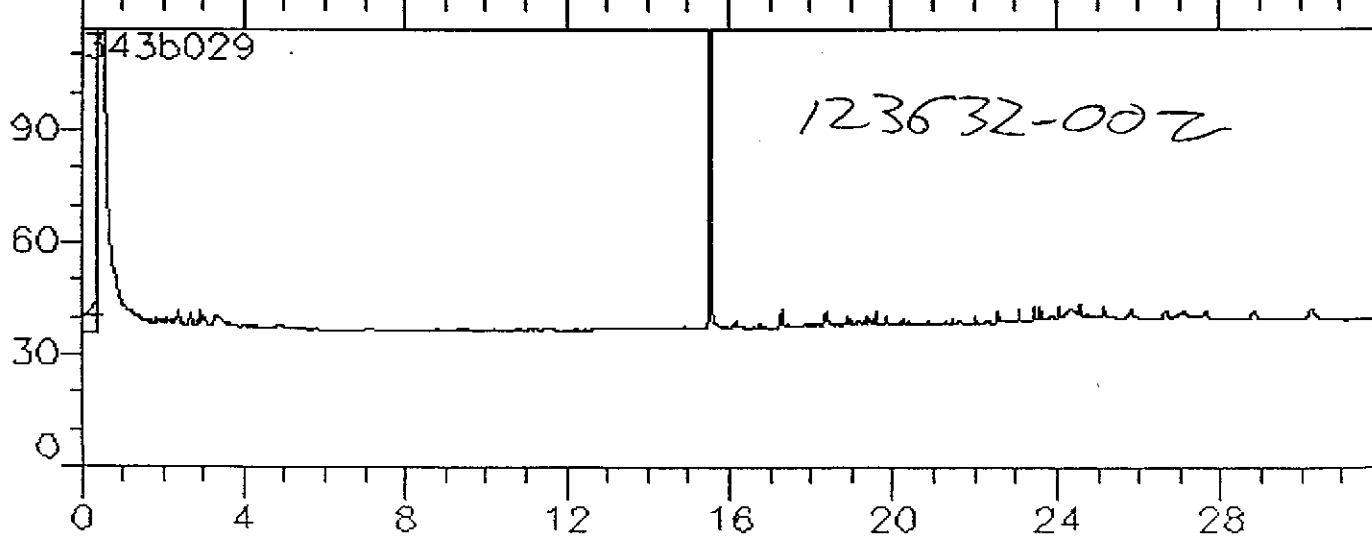
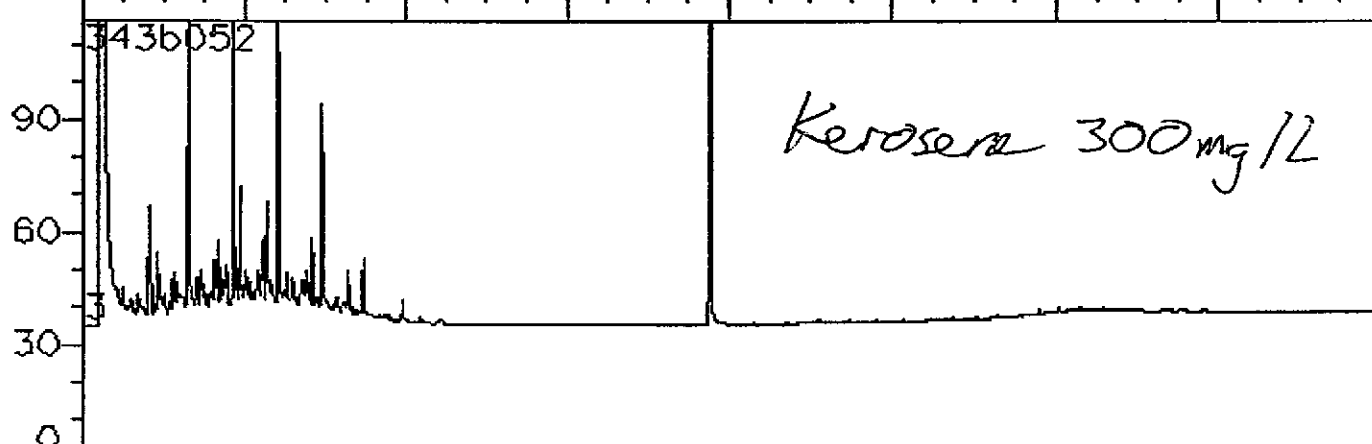
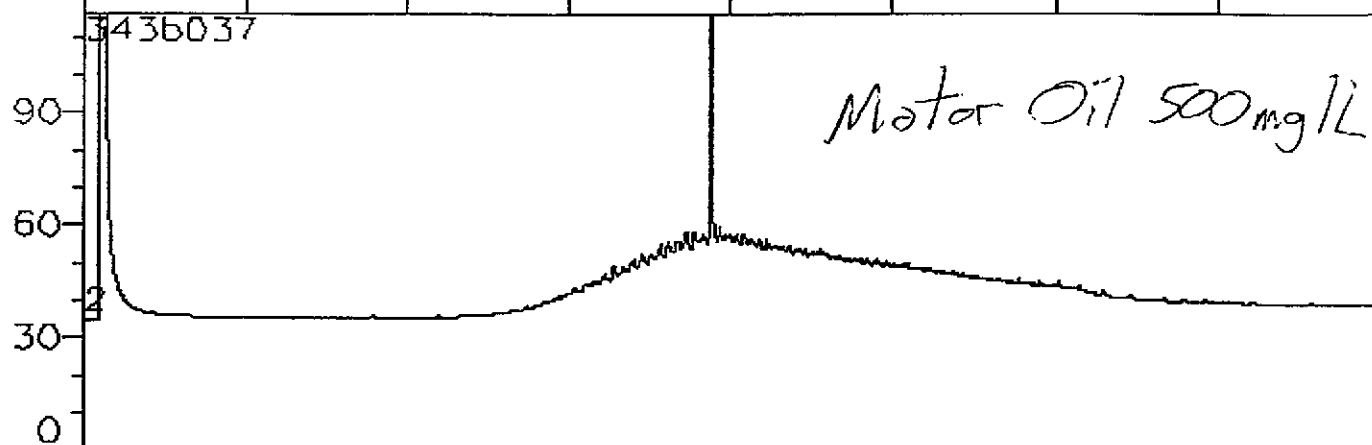
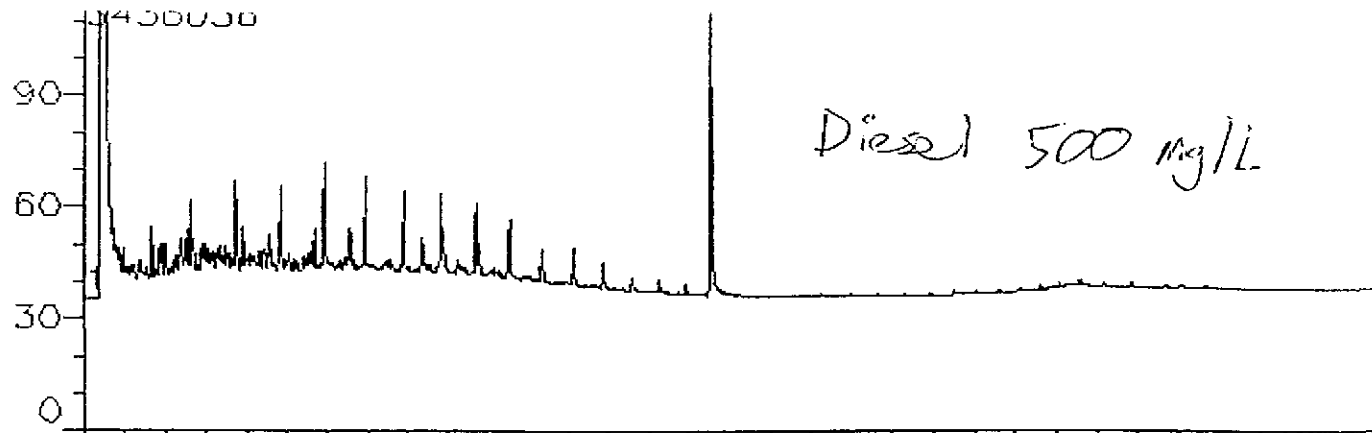
Matrix: Soil

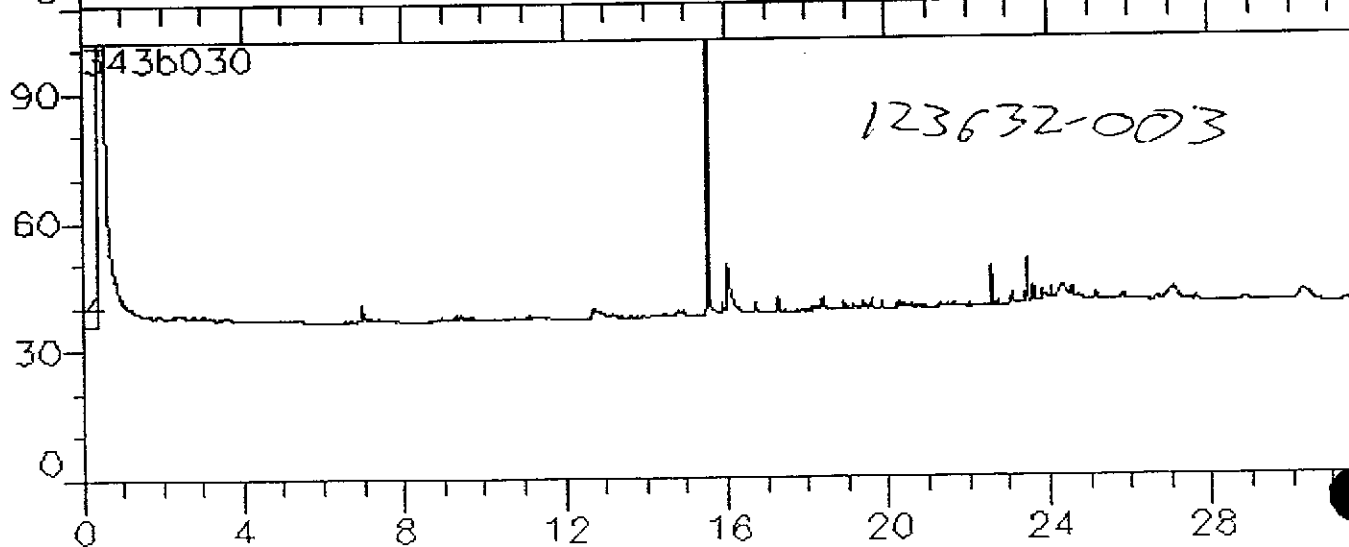
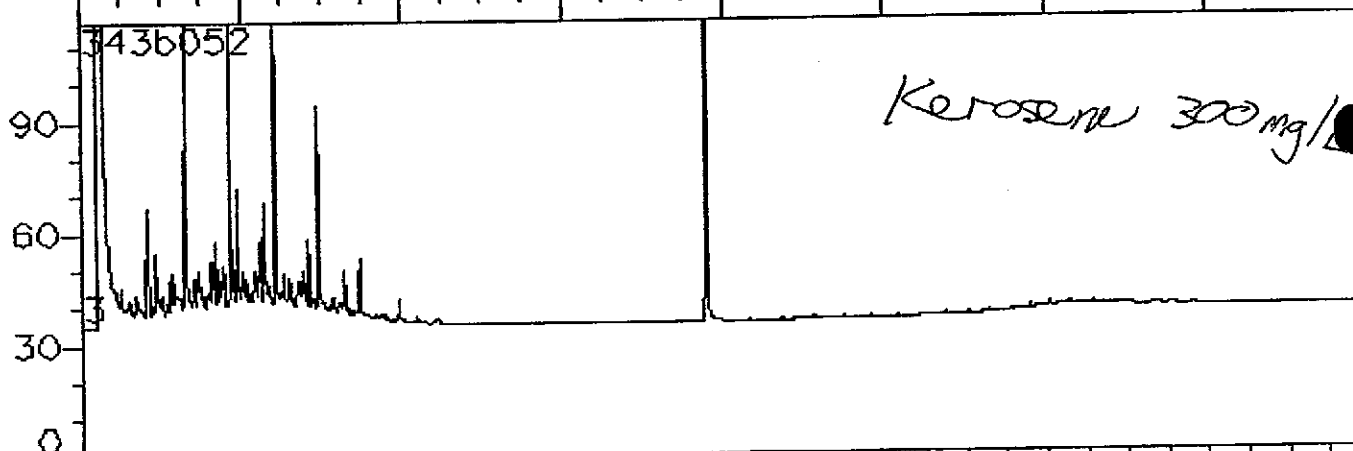
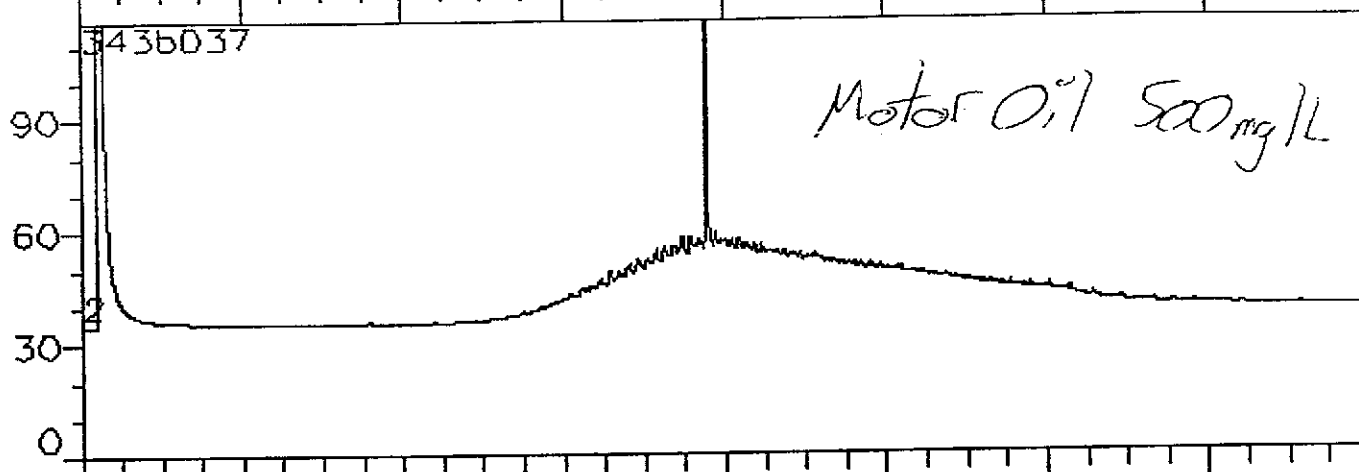
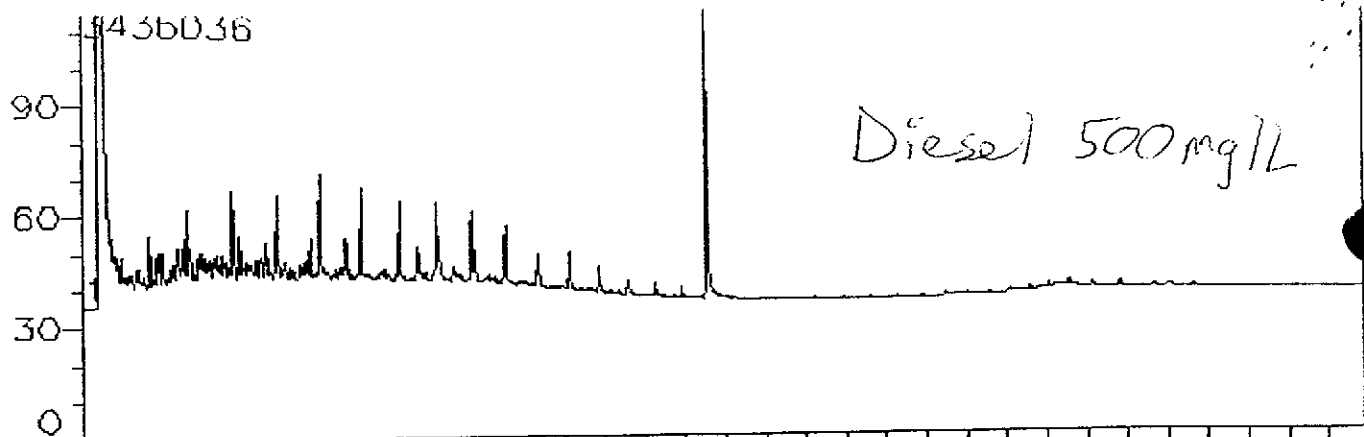
Analyte	Units	123632-005	123632-006	123632-007
Diln Fac:		1	1	1
Kerosene C10-C16	mg/Kg	<1	9 Y	2000 YL
Diesel C12-C22	mg/Kg	<1	11 Y	230 YL
Motor Oil C22-C50	mg/Kg	<25	<25	<25
Surrogate				
Hexacosane	%REC	106	115	117

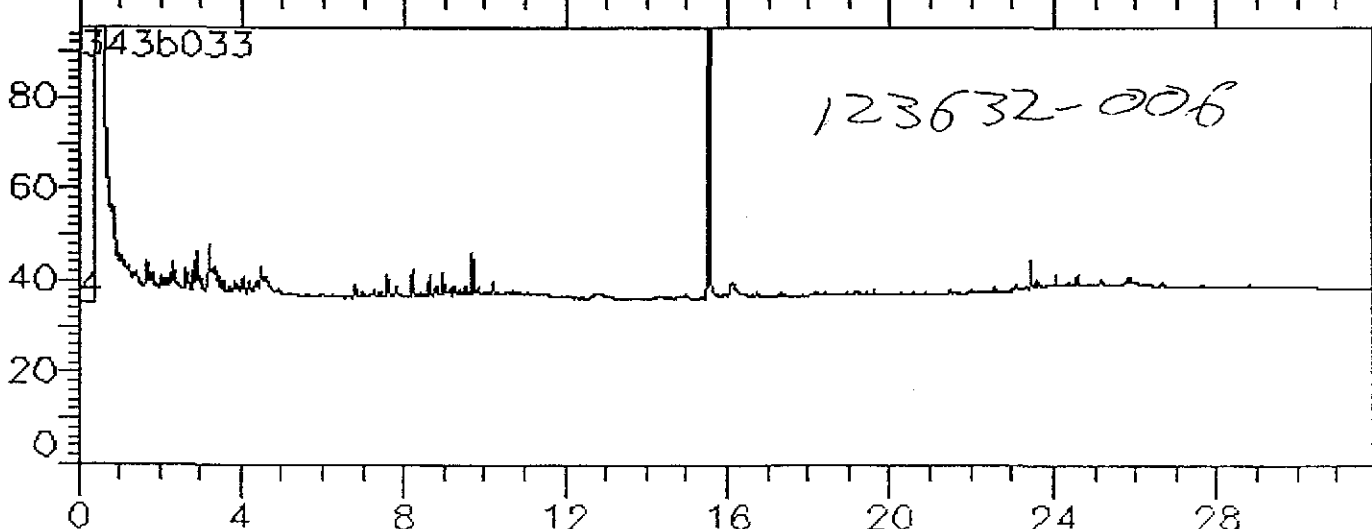
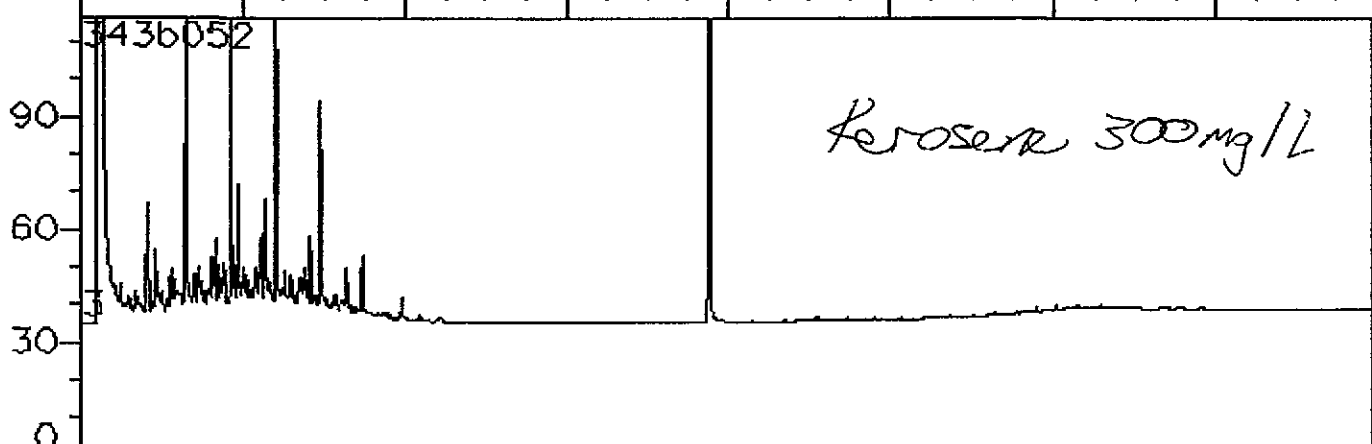
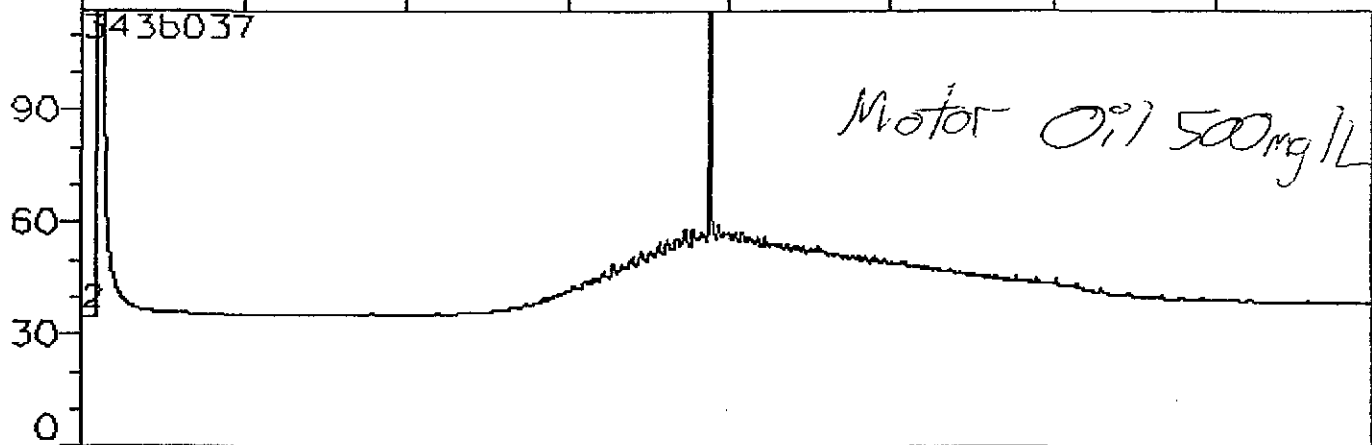
Y: Sample exhibits fuel pattern which does not resemble standard

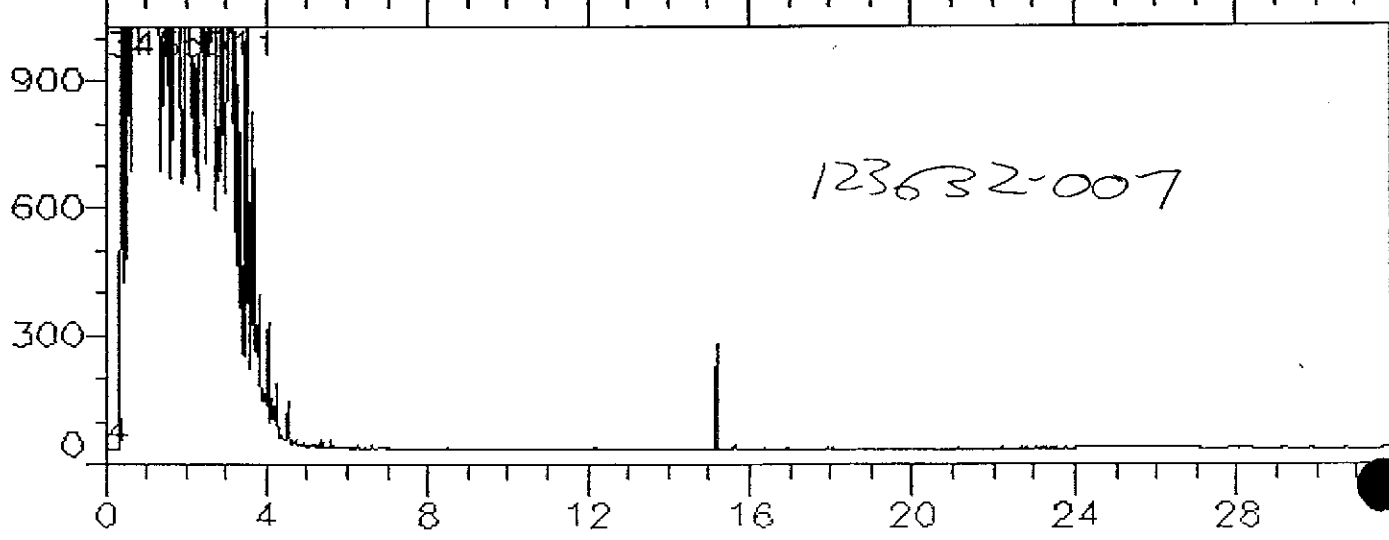
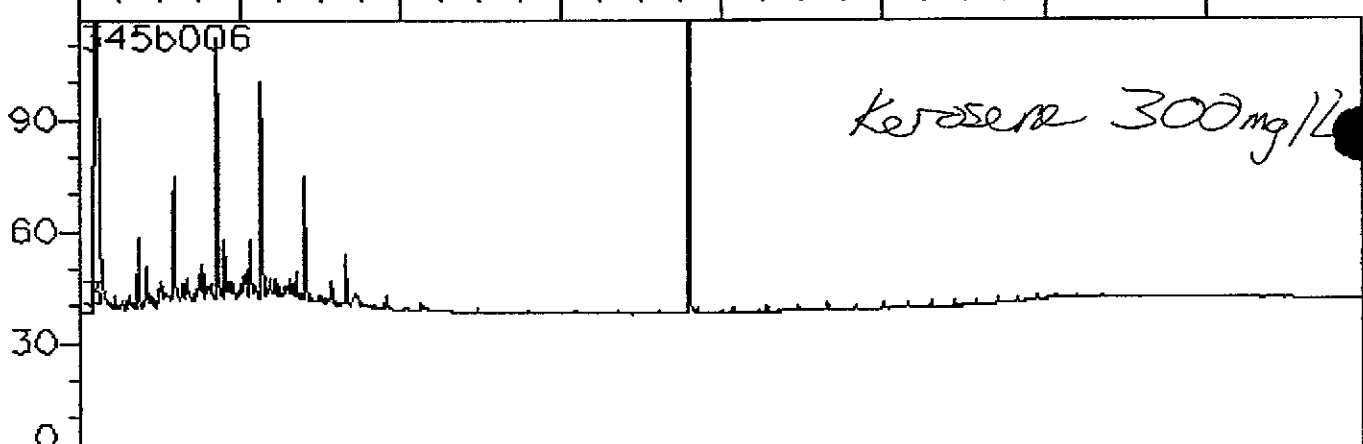
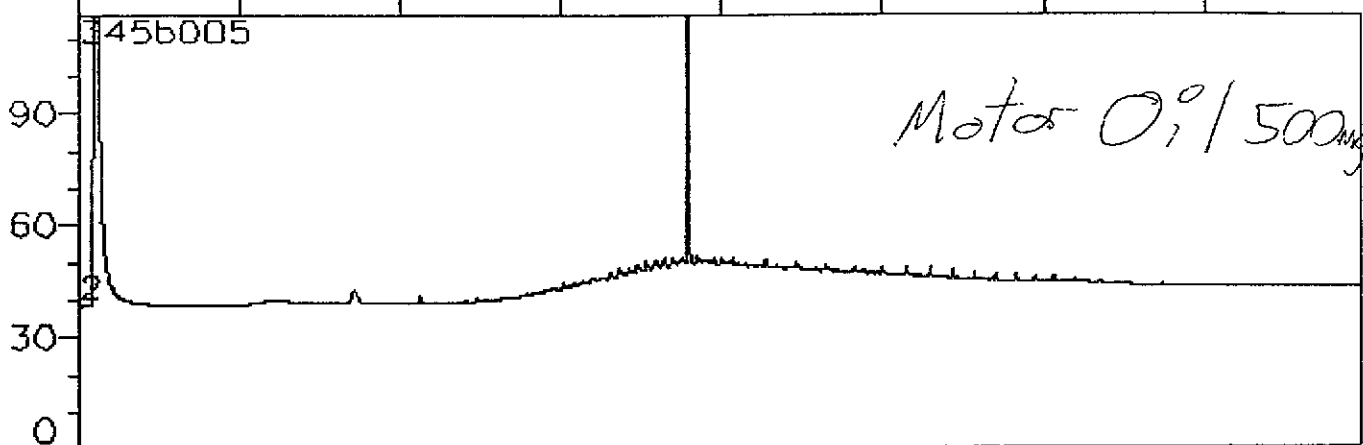
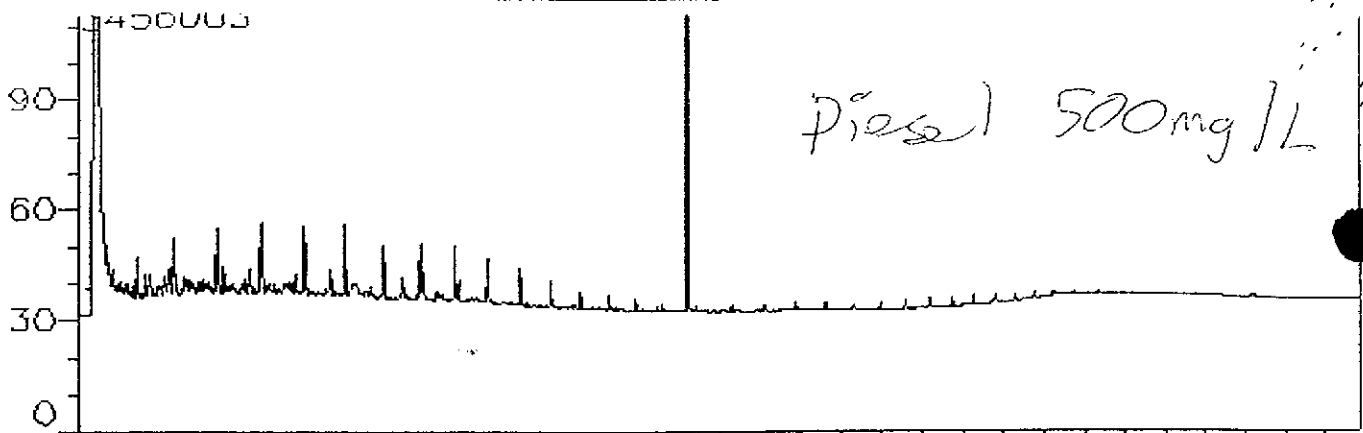
L: Lighter hydrocarbons than indicated standard













Lab #: 123632

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: SHAKER TABLE

METHOD BLANK

Matrix: Soil
Batch#: 24746
Units: mg/Kg
Diln Fac: 1

Prep Date: 12/08/95
Analysis Date: 12/10/95

MB Lab ID: QC10440

Analyte	Result		
Kerosene Range	<1.0		
Diesel Range	<1.0		
Motor Oil Range	<25		
Surrogate	%Rec		Recovery Limits
Hexacosane	118		60-140



Lab #: 123632

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: SHAKER TABLE
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24746	Analysis Date: 12/10/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10441

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	47.1	51.3	92	60-140
Surrogate	%Rec	Limits		
Hexacosane	119	60-140		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 123632
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

DATE SAMPLED: 12/07/95
DATE RECEIVED: 12/07/95
DATE EXTRACTED: 12/08/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123632-001	U-NW-2	ND	25
123632-002	U-NW-3	ND	25
123632-003	U-WW-2	ND	25
123632-004	U-WW-3	ND	25
123632-005	U-EW-2	ND	25
123632-007	U-F-1	ND	25
123632-007	U-EW-1A	5,800	250
123632-METHOD	BLANK	ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	102



Curtis & Tompkins, Ltd.

SAMPLE ID: U-NW-2
 LAB ID: 123632-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 12/07/95
 DATE RECEIVED: 12/07/95
 DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24766	EPA 6010A	12/13/95
Arsenic	6.3	0.25	24766	EPA 6010A	12/13/95
Barium	150	0.50	24766	EPA 6010A	12/13/95
Beryllium	0.63	0.10	24766	EPA 6010A	12/13/95
Cadmium	1.4	0.050	24766	EPA 6010A	12/13/95
Chromium (total)	43	0.50	24766	EPA 6010A	12/13/95
Cobalt	8.9	1.0	24766	EPA 6010A	12/13/95
Copper	17	0.50	24766	EPA 6010A	12/13/95
Lead	6.7	0.15	24766	EPA 6010A	12/13/95
Mercury	0.12	0.10	24778	EPA 7471	12/13/95
Molybdenum	ND	1.0	24766	EPA 6010A	12/13/95
Nickel	43	1.0	24766	EPA 6010A	12/13/95
Selenium	0.79	0.25	24766	EPA 6010A	12/13/95
Silver	ND	0.50	24766	EPA 6010A	12/13/95
Thallium	ND	0.25	24766	EPA 6010A	12/13/95
Vanadium	38	0.50	24766	EPA 6010A	12/13/95
Zinc	48	1.0	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



SAMPLE ID: U-NW-3
LAB ID: 123632-002
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/07/95
DATE RECEIVED: 12/07/95
DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24766	EPA 6010A	12/13/95
Arsenic	5.3	0.24	24766	EPA 6010A	12/13/95
Barium	160	0.48	24766	EPA 6010A	12/13/95
Beryllium	0.64	0.097	24766	EPA 6010A	12/13/95
Cadmium	1.3	0.048	24766	EPA 6010A	12/13/95
Chromium (total)	43	0.48	24766	EPA 6010A	12/13/95
Cobalt	10	0.97	24766	EPA 6010A	12/13/95
Copper	17	0.48	24766	EPA 6010A	12/13/95
Lead	7.1	0.14	24766	EPA 6010A	12/13/95
Mercury	0.14	0.10	24778	EPA 7471	12/13/95
Molybdenum	ND	0.97	24766	EPA 6010A	12/13/95
Nickel	46	0.97	24766	EPA 6010A	12/13/95
Selenium	ND	0.24	24766	EPA 6010A	12/13/95
Silver	ND	0.48	24766	EPA 6010A	12/13/95
Thallium	ND	0.24	24766	EPA 6010A	12/13/95
Vanadium	38	0.48	24766	EPA 6010A	12/13/95
Zinc	45	0.97	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: U-WW-2
LAB ID: 123632-003
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/07/95
DATE RECEIVED: 12/07/95
DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24766	EPA 6010A	12/13/95
Arsenic	3.7	0.25	24766	EPA 6010A	12/13/95
Barium	120	0.49	24766	EPA 6010A	12/13/95
Beryllium	0.50	0.099	24766	EPA 6010A	12/13/95
Cadmium	0.98	0.049	24766	EPA 6010A	12/13/95
Chromium (total)	37	0.49	24766	EPA 6010A	12/13/95
Cobalt	7.9	0.99	24766	EPA 6010A	12/13/95
Copper	13	0.49	24766	EPA 6010A	12/13/95
Lead	5.4	0.15	24766	EPA 6010A	12/13/95
Mercury	0.13	0.10	24778	EPA 7471	12/13/95
Molybdenum	ND	0.99	24766	EPA 6010A	12/13/95
Nickel	40	0.99	24766	EPA 6010A	12/13/95
Selenium	0.36	0.25	24766	EPA 6010A	12/13/95
Silver	ND	0.49	24766	EPA 6010A	12/13/95
Thallium	ND	0.25	24766	EPA 6010A	12/13/95
Vanadium	33	0.49	24766	EPA 6010A	12/13/95
Zinc	42	0.99	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



SAMPLE ID: U-WW-3
LAB ID: 123632-004
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/07/95
DATE RECEIVED: 12/07/95
DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24766	EPA 6010A	12/13/95
Arsenic	4.2	0.24	24766	EPA 6010A	12/13/95
Barium	140	0.48	24766	EPA 6010A	12/13/95
Beryllium	0.63	0.097	24766	EPA 6010A	12/13/95
Cadmium	1.2	0.048	24766	EPA 6010A	12/13/95
Chromium (total)	39	0.48	24766	EPA 6010A	12/13/95
Cobalt	8.7	0.97	24766	EPA 6010A	12/13/95
Copper	16	0.48	24766	EPA 6010A	12/13/95
Lead	6.8	0.14	24766	EPA 6010A	12/13/95
Mercury	0.16	0.10	24778	EPA 7471	12/13/95
Molybdenum	ND	0.97	24766	EPA 6010A	12/13/95
Nickel	41	0.97	24766	EPA 6010A	12/13/95
Selenium	ND	0.24	24766	EPA 6010A	12/13/95
Silver	ND	0.48	24766	EPA 6010A	12/13/95
Thallium	ND	0.24	24766	EPA 6010A	12/13/95
Vanadium	40	0.48	24766	EPA 6010A	12/13/95
Zinc	44	0.97	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: U-EW-2
 LAB ID: 123632-005
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 12/07/95
 DATE RECEIVED: 12/07/95
 DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24766	EPA 6010A	12/13/95
Arsenic	4.7	0.25	24766	EPA 6010A	12/13/95
Barium	140	0.50	24766	EPA 6010A	12/13/95
Beryllium	0.62	0.099	24766	EPA 6010A	12/13/95
Cadmium	1.2	0.050	24766	EPA 6010A	12/13/95
Chromium (total)	38	0.50	24766	EPA 6010A	12/13/95
Cobalt	8.5	0.99	24766	EPA 6010A	12/13/95
Copper	15	0.50	24766	EPA 6010A	12/13/95
Lead	6.4	0.15	24766	EPA 6010A	12/13/95
Mercury	0.17	0.10	24778	EPA 7471	12/13/95
Molybdenum	ND	0.99	24766	EPA 6010A	12/13/95
Nickel	36	0.99	24766	EPA 6010A	12/13/95
Selenium	ND	0.25	24766	EPA 6010A	12/13/95
Silver	ND	0.50	24766	EPA 6010A	12/13/95
Thallium	ND	0.25	24766	EPA 6010A	12/13/95
Vanadium	40	0.50	24766	EPA 6010A	12/13/95
Zinc	39	0.99	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



SAMPLE ID: U-F-1
LAB ID: 123632-006
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/07/95
DATE RECEIVED: 12/07/95
DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	3.0	24766	EPA 6010A	12/13/95
Arsenic	5.0	0.25	24766	EPA 6010A	12/13/95
Barium	200	0.49	24766	EPA 6010A	12/13/95
Beryllium	0.84	0.099	24766	EPA 6010A	12/13/95
Cadmium	1.5	0.049	24766	EPA 6010A	12/13/95
Chromium (total)	52	0.49	24766	EPA 6010A	12/13/95
Cobalt	10	0.99	24766	EPA 6010A	12/13/95
Copper	18	0.49	24766	EPA 6010A	12/13/95
Lead	8.2	0.15	24766	EPA 6010A	12/13/95
Mercury	0.15	0.10	24778	EPA 7471	12/13/95
Molybdenum	ND	0.99	24766	EPA 6010A	12/13/95
Nickel	47	0.99	24766	EPA 6010A	12/13/95
Selenium	ND	0.25	24766	EPA 6010A	12/13/95
Silver	ND	0.49	24766	EPA 6010A	12/13/95
Thallium	ND	0.25	24766	EPA 6010A	12/13/95
Vanadium	43	0.49	24766	EPA 6010A	12/13/95
Zinc	41	0.99	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: U-EW-1A
LAB ID: 123632-007
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/07/95
DATE RECEIVED: 12/07/95
DATE REPORTED: 05/30/96

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	2.9	1	24766	EPA 6010A	12/13/95
Arsenic	5.1	0.24	1	24766	EPA 6010A	12/13/95
Barium	150	0.49	1	24766	EPA 6010A	12/13/95
Beryllium	0.67	0.098	1	24766	EPA 6010A	12/13/95
Cadmium	1.4	0.049	1	24766	EPA 6010A	12/13/95
Chromium (total)	44	0.49	1	24766	EPA 6010A	12/13/95
Cobalt	9.5	0.98	1	24766	EPA 6010A	12/13/95
Copper	18	0.49	1	24766	EPA 6010A	12/13/95
Lead	14	0.15	1	24766	EPA 6010A	12/13/95
Mercury	0.17	0.10	1	24778	EPA 7471	12/13/95
Molybdenum	ND	0.98	1	24766	EPA 6010A	12/13/95
Nickel	43	0.98	1	24766	EPA 6010A	12/13/95
Selenium	0.56	0.24	1	24766	EPA 6010A	12/13/95
Silver	ND	0.49	1	24766	EPA 6010A	12/13/95
Thallium	ND	0.24	1	24766	EPA 6010A	12/13/95
Vanadium	42	0.49	1	24766	EPA 6010A	12/13/95
Zinc	46	0.98	1	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit

CLIENT: Secor
JOB NUMBER: 123632

DATE REPORTED: 12/29/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24766	EPA 6010A	12/13/95
Arsenic	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Barium	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Beryllium	ND	0.1	mg/Kg	24766	EPA 6010A	12/13/95
Cadmium	ND	0.05	mg/Kg	24766	EPA 6010A	12/13/95
Chromium (total)	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Cobalt	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Copper	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Lead	ND	0.15	mg/Kg	24766	EPA 6010A	12/13/95
Mercury	ND	0.2	ug/L	24778	EPA 7470	12/13/95
Molybdenum	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Nickel	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Selenium	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Silver	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Thallium	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Vanadium	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Zinc	ND	1	mg/Kg	24766	EPA 6010A	12/13/95

ND = Not Detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 123632

DATE REPORTED: 12/29/95

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	517	525	ug/L	103	105	104	2	24766	EPA 6010A	12/13/95
Arsenic	2000	1830	1860	ug/L	92	93	93	2	24766	EPA 6010A	12/13/95
Barium	2000	1980	2020	ug/L	99	101	100	2	24766	EPA 6010A	12/13/95
Beryllium	50	53	53.2	ug/L	106	106	106	0	24766	EPA 6010A	12/13/95
Cadmium	50	50.5	50.6	ug/L	101	101	101	0	24766	EPA 6010A	12/13/95
Chromium (total)	200	203	204	ug/L	102	102	102	1	24766	EPA 6010A	12/13/95
Cobalt	500	495	496	ug/L	99	99	99	0	24766	EPA 6010A	12/13/95
Copper	250	244	248	ug/L	98	99	99	2	24766	EPA 6010A	12/13/95
Lead	500	485	487	ug/L	97	97	97	0	24766	EPA 6010A	12/13/95
Mercury	5	4.75	4.723	ug/L	95	95	95	1	24778	EPA 7470	12/13/95
Molybdenum	400	381	383	ug/L	95	96	96	1	24766	EPA 6010A	12/13/95
Nickel	500	498	504	ug/L	100	101	101	1	24766	EPA 6010A	12/13/95
Selenium	2000	1710	1740	ug/L	86	87	87	2	24766	EPA 6010A	12/13/95
Silver	100	102	103	ug/L	102	103	103	1	24766	EPA 6010A	12/13/95
Thallium	2000	1990	2020	ug/L	100	101	101	2	24766	EPA 6010A	12/13/95
Vanadium	500	497	501	ug/L	99	100	100	1	24766	EPA 6010A	12/13/95
Zinc	500	472	478	ug/L	94	96	95	1	24766	EPA 6010A	12/13/95

SECOR Chain-of Custody Record

Field Office: Concord
 Address: 1390 Willow Pass Rd., Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: Bahannon Development
 Location: 575 Paseo Grande
San Lorenzo, CA

Project # 70074-001-02 Task # _____
 Project Manager Steve McCabe
 Laboratory Curtis & Thompkins
 Turnaround Time 24 hr. / Standard

Analysis Request

Sampler's Name Charles Melancon
 Sampler's Signature [Signature]

Sample ID	Date	Time	Matrix	HCID	TPH-g/BTEX/WTPH-g 8015 (modified/8020)	TPH-g/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418 602/8020	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers	
U-NW-2	12-7-95		Soil		<input checked="" type="checkbox"/>											X CAM 17 Hydrocarbon SCAN XX	123632: 1	1
U-NW-3																	-2	1
U-WW-2																	-3	1
U-WW-3																	-4	1
U-FW-2																	-5	1
U-F-1																	-6	1
U-FW-1A																	-7	1

Special Instructions/Comments:
 ** Hydrocarbon Scan
 Includes:
 Kerosene, TPH-d, and
 Motor oil

Relinquished by:
 Sign [Signature]
 Print Charles Melancon
 Company SECOR
 Time 4:00 Date 12-7-95

Relinquished by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Received by: [Signature]
 Sign _____
 Print JOSE DELGADO
 Company CGT
 Time 11:00 Date 12/7

Received by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Sample Receipt

Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd. in good condition/cold: _____
 Conforms to record: _____

Client: _____
 Client Contact: _____
 Client Phone: _____



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 29-DEC-95
Lab Job Number: 123652
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Reviewed by:

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Curtis & Tompkins, Ltd.

SAMPLE ID: S-WW-4
 LAB ID: 123652-001
 CLIENT: Secor
 PROJECT ID: 70074-001-02
 LOCATION: Bohannon Development
 MATRIX: Soil

DATE SAMPLED: 12/08/95
 DATE RECEIVED: 12/08/95
 DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24766	EPA 6010A	12/13/95
Arsenic	4.3	0.24	24766	EPA 6010A	12/13/95
Barium	160	0.48	24766	EPA 6010A	12/13/95
Beryllium	0.69	0.096	24766	EPA 6010A	12/13/95
Cadmium	1.1	0.048	24766	EPA 6010A	12/13/95
Chromium (total)	41	0.48	24766	EPA 6010A	12/13/95
Cobalt	8.1	0.96	24766	EPA 6010A	12/13/95
Copper	15	0.48	24766	EPA 6010A	12/13/95
Lead	7.1	0.14	24766	EPA 6010A	12/13/95
Mercury	0.12	0.10	24785	EPA 7471	12/14/95
Molybdenum	ND	0.96	24766	EPA 6010A	12/13/95
Nickel	38	0.96	24766	EPA 6010A	12/13/95
Selenium	0.53	0.24	24766	EPA 6010A	12/13/95
Silver	ND	0.48	24766	EPA 6010A	12/13/95
Thallium	ND	0.24	24766	EPA 6010A	12/13/95
Vanadium	38	0.48	24766	EPA 6010A	12/13/95
Zinc	37	0.96	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: U-NW-4
LAB ID: 123652-002
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/08/95
DATE RECEIVED: 12/08/95
DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24766	EPA 6010A	12/13/95
Arsenic	4.0	0.24	24766	EPA 6010A	12/13/95
Barium	220	0.48	24766	EPA 6010A	12/13/95
Beryllium	0.81	0.096	24766	EPA 6010A	12/13/95
Cadmium	1.1	0.048	24766	EPA 6010A	12/13/95
Chromium (total)	45	0.48	24766	EPA 6010A	12/13/95
Cobalt	9.8	0.96	24766	EPA 6010A	12/13/95
Copper	18	0.48	24766	EPA 6010A	12/13/95
Lead	7.9	0.14	24766	EPA 6010A	12/13/95
Mercury	0.14	0.10	24785	EPA 7471	12/14/95
Molybdenum	ND	0.96	24766	EPA 6010A	12/13/95
Nickel	45	0.96	24766	EPA 6010A	12/13/95
Selenium	ND	0.24	24766	EPA 6010A	12/13/95
Silver	ND	0.48	24766	EPA 6010A	12/13/95
Thallium	ND	0.24	24766	EPA 6010A	12/13/95
Vanadium	32	0.48	24766	EPA 6010A	12/13/95
Zinc	40	0.96	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd.

SAMPLE ID: U-SW-3
LAB ID: 123652-003
CLIENT: Secor
PROJECT ID: 70074-001-02
LOCATION: Bohannon Development
MATRIX: Soil

DATE SAMPLED: 12/08/95
DATE RECEIVED: 12/08/95
DATE REPORTED: 12/29/95

California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Antimony	ND	2.9	24766	EPA 6010A	12/13/95
Arsenic	4.8	0.24	24766	EPA 6010A	12/13/95
Barium	150	0.48	24766	EPA 6010A	12/13/95
Beryllium	0.76	0.096	24766	EPA 6010A	12/13/95
Cadmium	1.1	0.048	24766	EPA 6010A	12/13/95
Chromium (total)	44	0.48	24766	EPA 6010A	12/13/95
Cobalt	9.2	0.96	24766	EPA 6010A	12/13/95
Copper	15	0.48	24766	EPA 6010A	12/13/95
Lead	7.4	0.14	24766	EPA 6010A	12/13/95
Mercury	0.17	0.10	24785	EPA 7471	12/14/95
Molybdenum	ND	0.96	24766	EPA 6010A	12/13/95
Nickel	43	0.96	24766	EPA 6010A	12/13/95
Selenium	0.38	0.24	24766	EPA 6010A	12/13/95
Silver	ND	0.48	24766	EPA 6010A	12/13/95
Thallium	ND	0.24	24766	EPA 6010A	12/13/95
Vanadium	45	0.48	24766	EPA 6010A	12/13/95
Zinc	46	0.96	24766	EPA 6010A	12/13/95

ND = Not detected at or above reporting limit

CLIENT: Secor
JOB NUMBER: 123652

DATE REPORTED: 12/29/95

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	24766	EPA 6010A	12/13/95
Arsenic	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Barium	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Beryllium	ND	0.1	mg/Kg	24766	EPA 6010A	12/13/95
Cadmium	ND	0.05	mg/Kg	24766	EPA 6010A	12/13/95
Chromium (total)	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Cobalt	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Copper	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Lead	ND	0.15	mg/Kg	24766	EPA 6010A	12/13/95
Mercury	ND	0.2	ug/L	24785	EPA 7470	12/14/95
Molybdenum	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Nickel	ND	1	mg/Kg	24766	EPA 6010A	12/13/95
Selenium	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Silver	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Thallium	ND	0.25	mg/Kg	24766	EPA 6010A	12/13/95
Vanadium	ND	0.5	mg/Kg	24766	EPA 6010A	12/13/95
Zinc	ND	1	mg/Kg	24766	EPA 6010A	12/13/95

ND = Not Detected at or above reporting limit



CLIENT: Secor
JOB NUMBER: 123652

DATE REPORTED: 12/29/95

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	517	525	ug/L	103	105	104	2	24766	EPA 6010A	12/13/95
Arsenic	2000	1830	1860	ug/L	92	93	93	2	24766	EPA 6010A	12/13/95
Barium	2000	1980	2020	ug/L	99	101	100	2	24766	EPA 6010A	12/13/95
Beryllium	50	53	53.2	ug/L	106	106	106	0	24766	EPA 6010A	12/13/95
Cadmium	50	50.5	50.6	ug/L	101	101	101	0	24766	EPA 6010A	12/13/95
Chromium (total)	200	203	204	ug/L	102	102	102	1	24766	EPA 6010A	12/13/95
Cobalt	500	495	496	ug/L	99	99	99	0	24766	EPA 6010A	12/13/95
Copper	250	244	248	ug/L	98	99	99	2	24766	EPA 6010A	12/13/95
Lead	500	485	487	ug/L	97	97	97	0	24766	EPA 6010A	12/13/95
Mercury	5	4.932	5.163	ug/L	99	103	101	5	24785	EPA 7470	12/14/95
Molybdenum	400	381	383	ug/L	95	96	96	1	24766	EPA 6010A	12/13/95
Nickel	500	498	504	ug/L	100	101	101	1	24766	EPA 6010A	12/13/95
Selenium	2000	1710	1740	ug/L	86	87	87	2	24766	EPA 6010A	12/13/95
Silver	100	102	103	ug/L	102	103	103	1	24766	EPA 6010A	12/13/95
Thallium	2000	1990	2020	ug/L	100	101	101	2	24766	EPA 6010A	12/13/95
Vanadium	500	497	501	ug/L	99	100	100	1	24766	EPA 6010A	12/13/95
Zinc	500	472	478	ug/L	94	96	95	1	24766	EPA 6010A	12/13/95



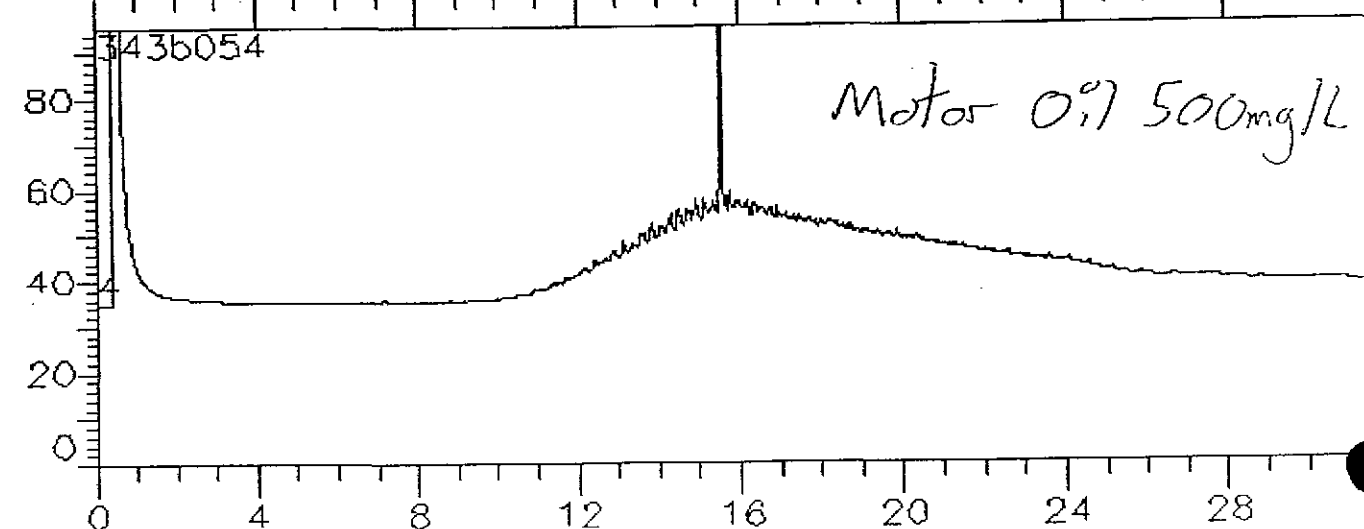
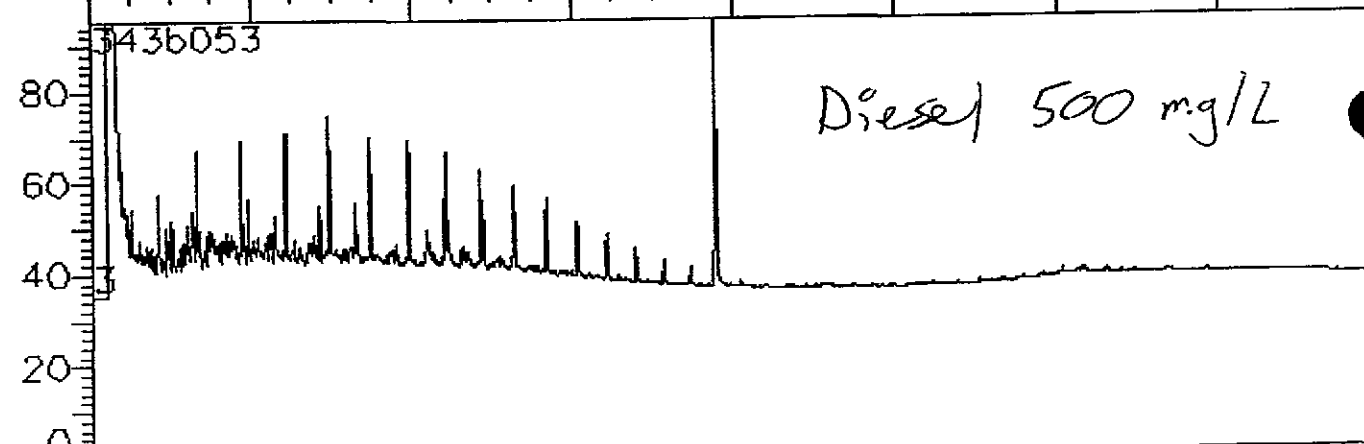
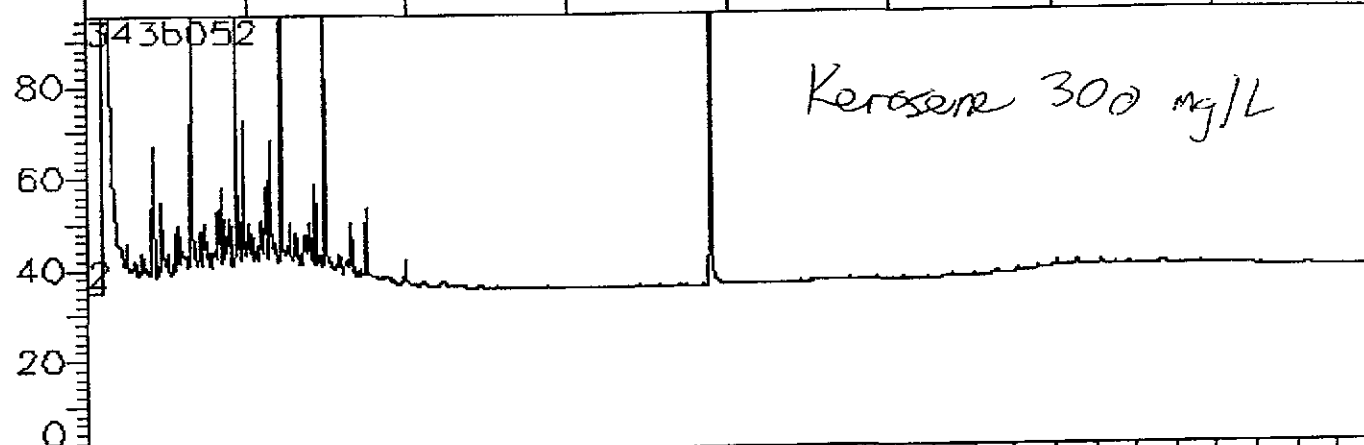
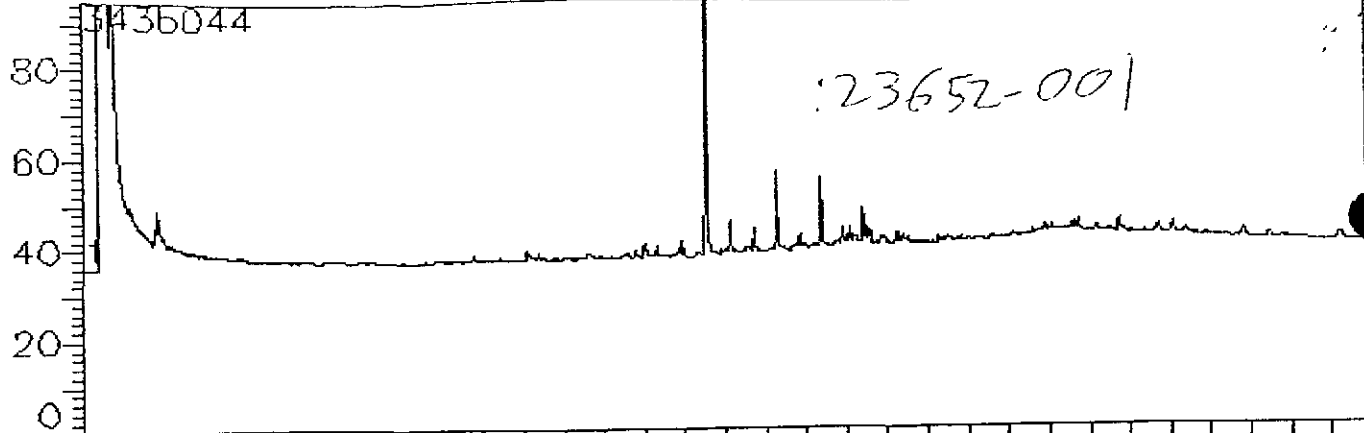
TEH-Tot Ext Hydrocarbons

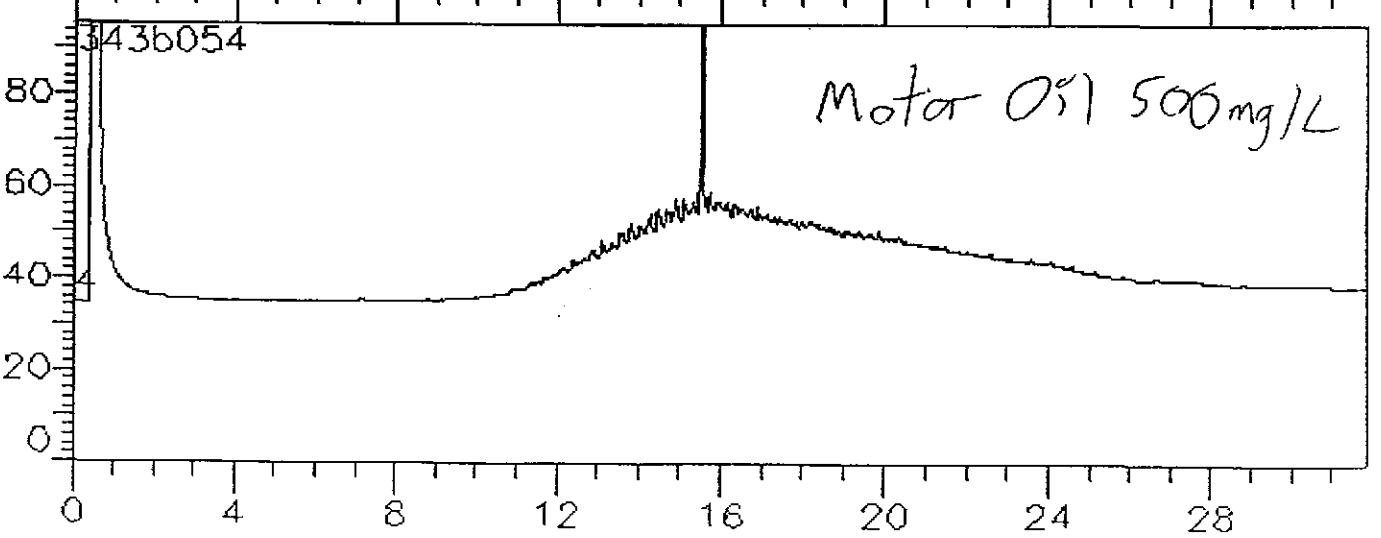
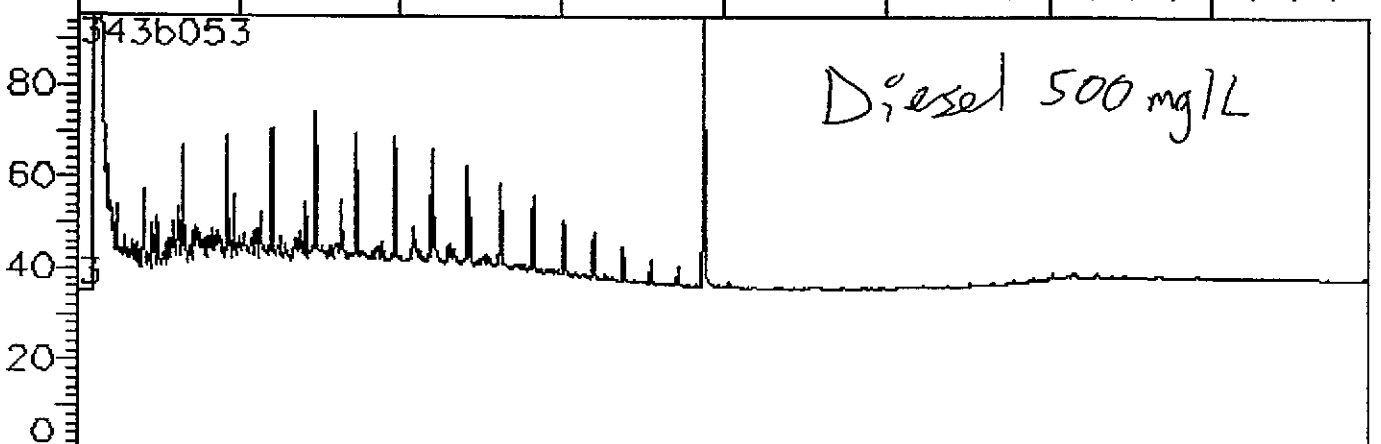
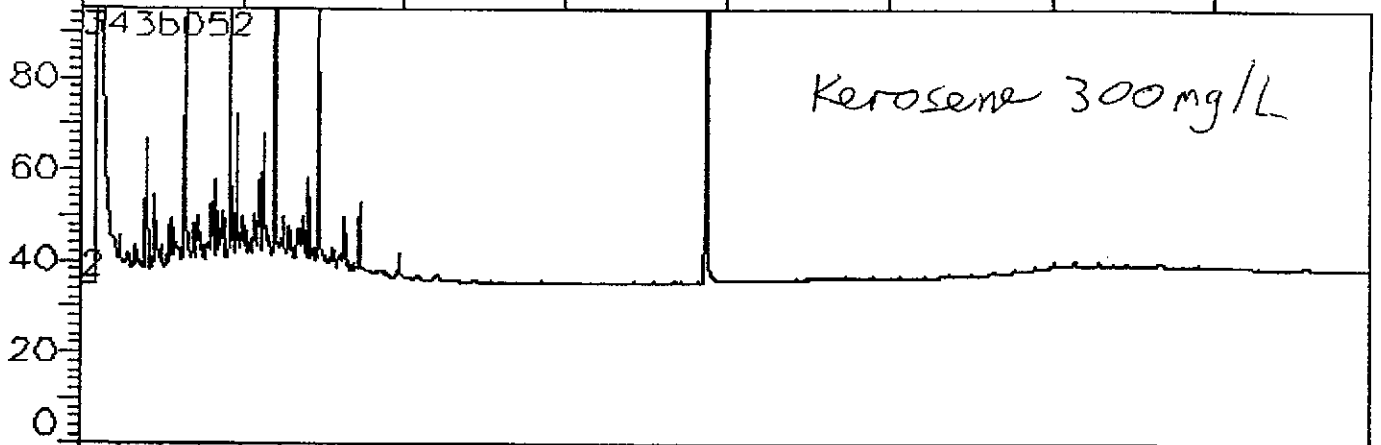
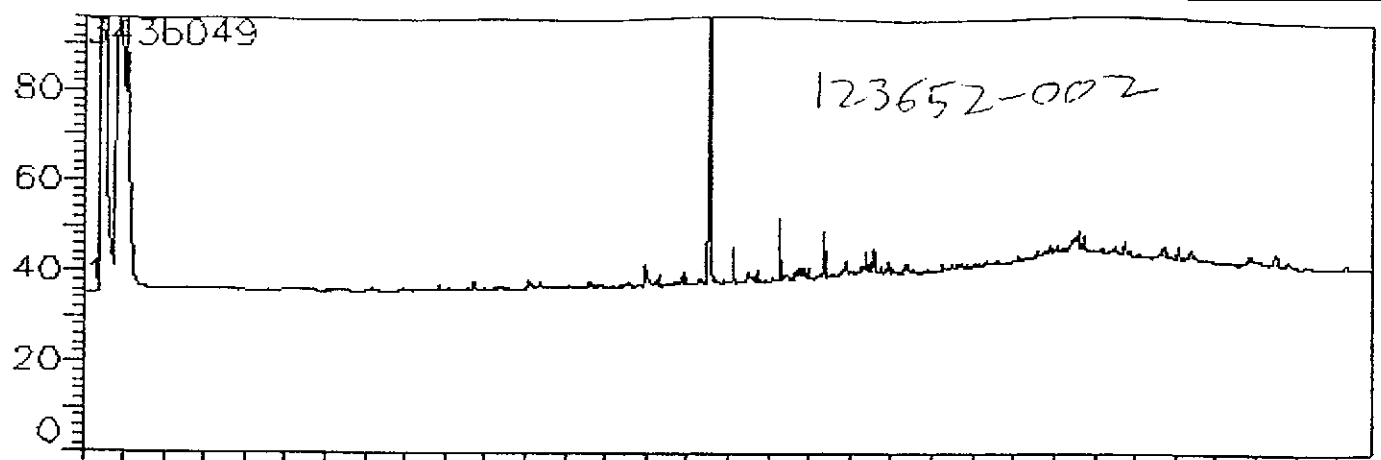
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: LUFT
Location: Bohannon Development	

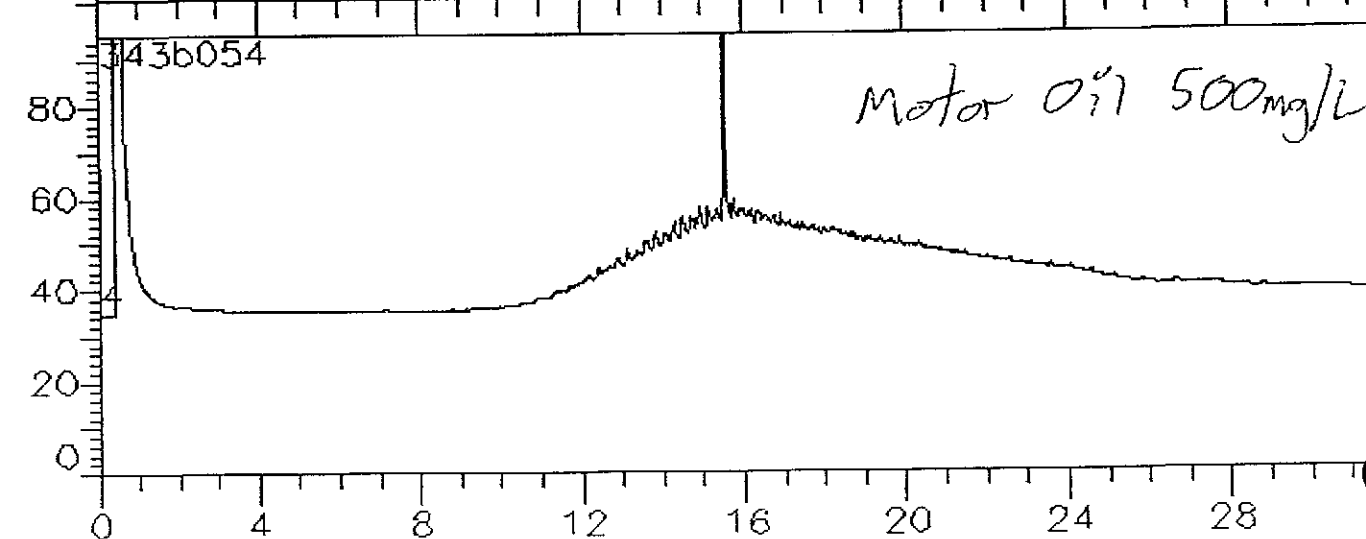
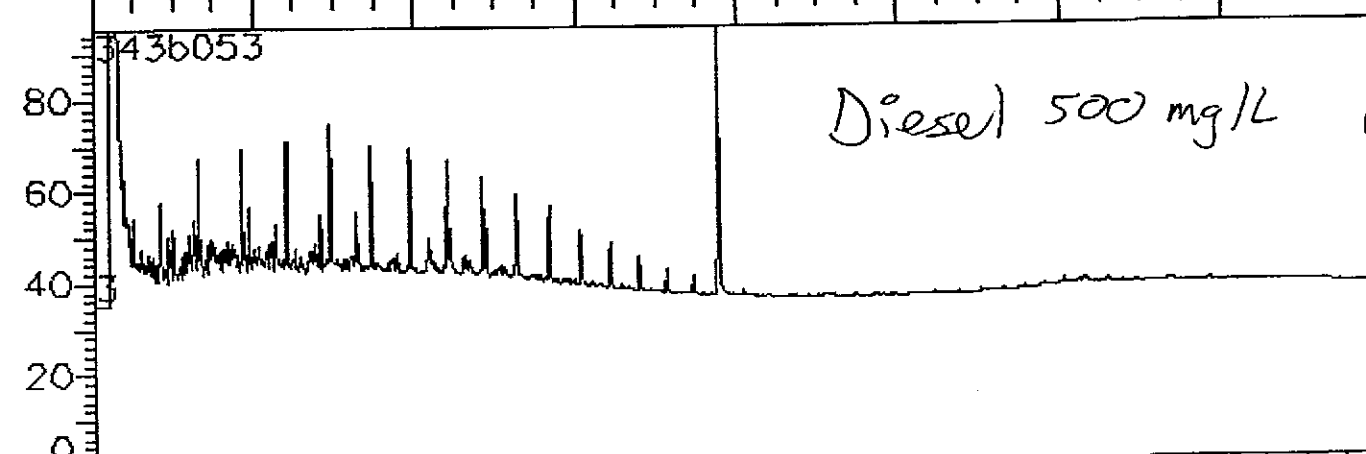
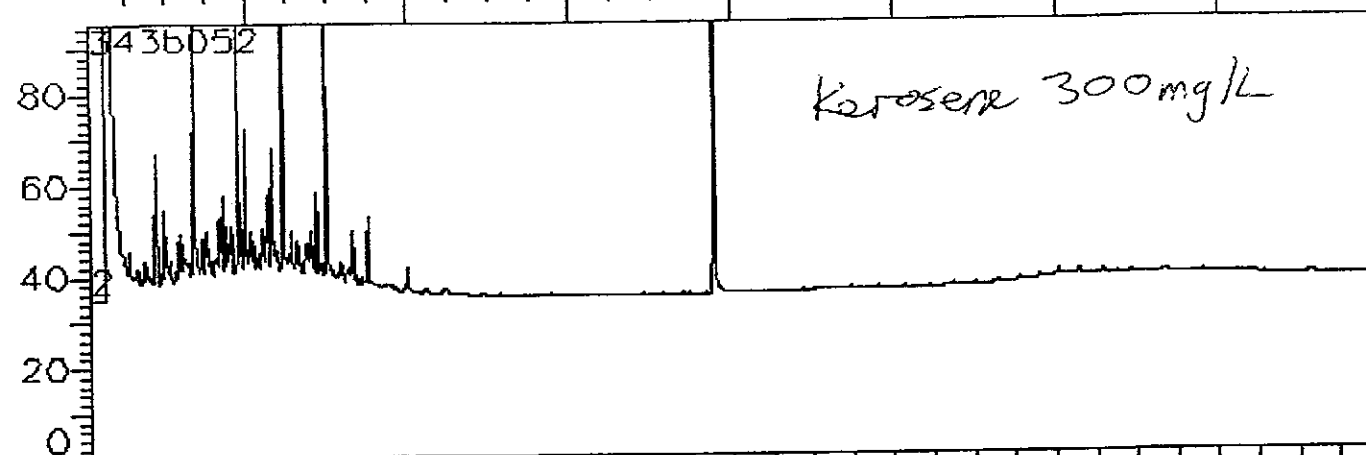
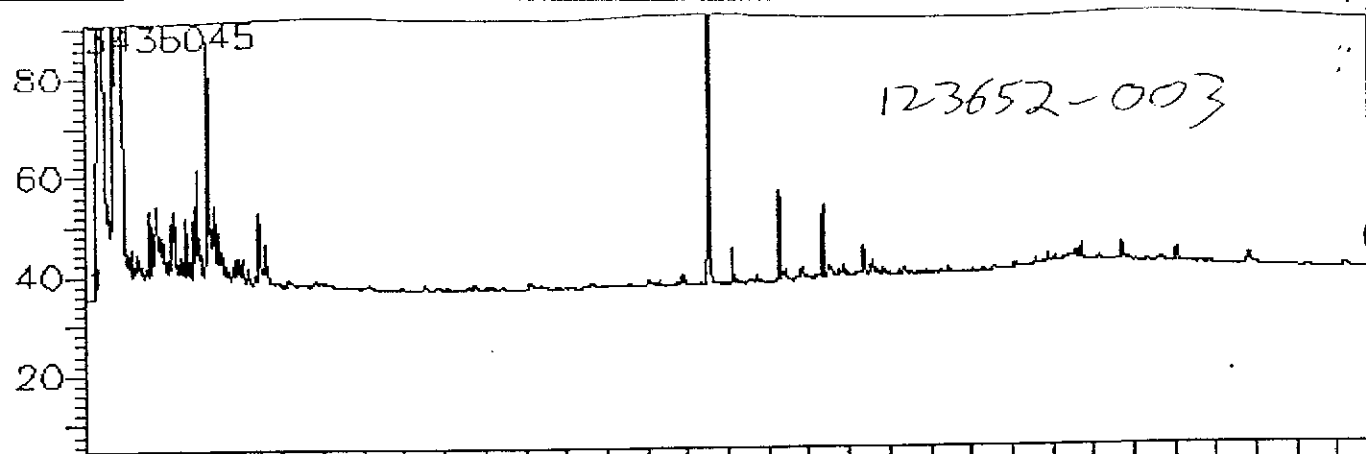
Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123652-001	S-WW-4	24742	12/08/95	12/08/95	12/11/95	
123652-002	U-NW-4	24742	12/08/95	12/08/95	12/11/95	
123652-003	U-SW-3	24742	12/08/95	12/08/95	12/11/95	

Analyte	Units	123652-001	123652-002	123652-003
Diln Fac:		1	1	1
Kerosene Range	mg/Kg	<1	1.1Z	11 Y
Diesel Range	mg/Kg	<1	<1	4.4YL
Motor Oil Range	mg/Kg	<25	<25	<25
Surrogate				
Hexacosane	%REC	114	125	95

Y: Sample exhibits fuel pattern which does not resemble standard
 Z: Sample exhibits unknown single peak or peaks
 L: Lighter hydrocarbons than indicated standard









Lab #: 123652

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: 3550
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24742	Analysis Date: 12/10/95
Units: mg/Kg	
Diln Fac: 1	

MB Lab ID: QC10419

Analyte	Result	
Kerosene Range	<1.0	
Diesel Range	<1.0	
Motor Oil Range	<25	
Surrogate	%Rec	Recovery Limits
Hexacosane	70	60-140



Lab #: 123652

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: 3550
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/08/95
Batch#: 24742	Analysis Date: 12/10/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10420

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	59.7	51.3	116	60-140
Surrogate	%Rec	Limits		
Hexacosane	120	60-140		

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 Spike Recovery: 0 out of 1 outside limits



TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123652-004	UST-PIT	24786	12/08/95	12/13/95	12/14/95	
123652-005	SUMP-PIT	24786	12/08/95	12/13/95	12/14/95	

Analyte	Units	123652-004	123652-005
Diln Fac:		1	1
Kerosene Range	ug/L	7200 YL	1200 Y
Diesel Range	ug/L	8500 YL	1400 YL
Motor Oil Range	ug/L	<1300	<1300
Surrogate			
Hexacosane	%REC	111	116

Y: Sample exhibits fuel pattern which does not resemble standard

Z: Sample exhibits unknown single peak or peaks

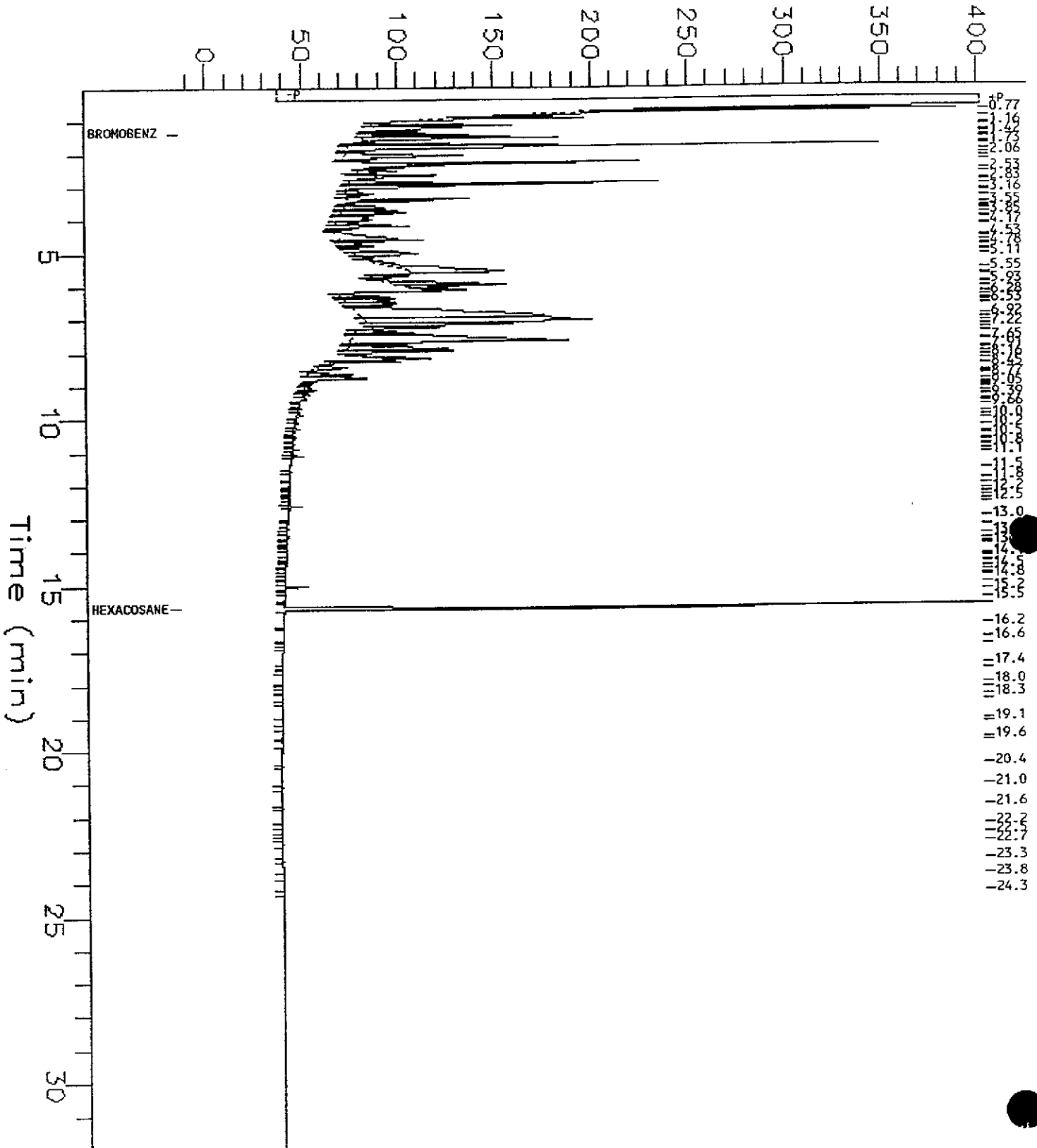
L: Lighter hydrocarbons than indicated standard

Sample Name : 123652-004,500:2.5
FileName : G:\GC11\CHA\348a010.raw
Method : GC11DUAL.ins
Start Time : 0.01 min
Scale Factor : 0

End Time : 31.92 min
Plot Offset : -14 mV

Sample #: 24786
Date : 12/15/95 09:25 AM
Time of Injection: 12/14/95 08:08 PM
Low Point : -14.39 mV
Plot Scale: 416 mV
High Point : 401.88 mV

Response (mV)



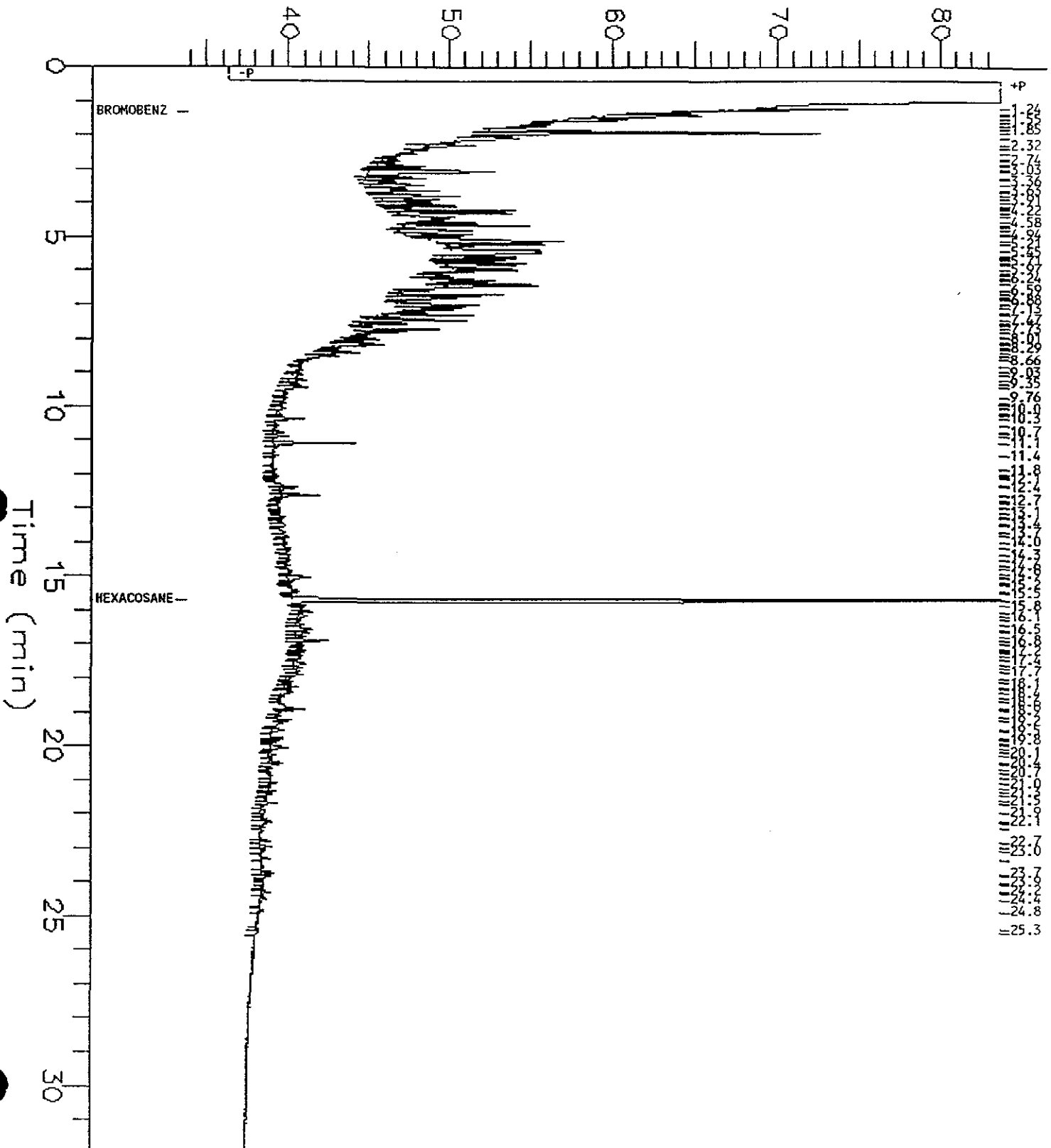
TEH Chromatogram - GC 11 Ch A

Sample Name : 123652-005,500:2.5
 FileName : g:\gc11\cha\348a011.raw
 Method : GC11DUAL.ins
 Start Time : 0.00 min
 Scale Factor: -1

End Time : 31.92 min
 Plot Offset: 34 mV

Page 1 of 1
 Sample #: 24786
 Date : 12/14/95 09:25 PM
 Time of Injection: 12/14/95 08:52 PM
 Low Point : 33.80 mV
 High Point : 83.80 mV
 Plot Scale: 50 mV

Response (mV)





Lab #: 123652

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: 3520
Location: Bohannon Development	
BLANK SPIKE/BLANK SPIKE DUPLICATE	
Matrix: Water	Prep Date: 12/13/95
Batch#: 24786	Analysis Date: 12/14/95
Units: ug/L	
Diln Fac: 1	

BS Lab ID: QC10614

Analyte	Spike Added	BS	%Rec #	Limits
Diesel Range	2565	2506	98	60-140
Surrogate	%Rec	Limits		
Hexacosane	105	60-140		

BSD Lab ID: QC10615

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Diesel Range	2565	2434	95	60-140	3	<25
Surrogate	%Rec	Limits				
Hexacosane	105	60-140				

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 RPD: 0 out of 1 outside limits
 Spike Recovery: 0 out of 2 outside limits



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123652-001	S-WW-4	24743	12/08/95	12/09/95	12/09/95	
123652-002	U-NW-4	24743	12/08/95	12/09/95	12/09/95	
123652-003	U-SW-3	24756	12/08/95	12/14/95	12/14/95	

Analyte	Units	123652-001	123652-002	123652-003
Diln Fac:		1	1	1
Gasoline	mg/Kg	<1	<1	5.2Y
Mineral Spirits	mg/Kg	<2	<2	35 Y
Surrogate				
Trifluorotoluene	%REC	101	101	101
Bromobenzene	%REC	107	105	112

Y: Sample exhibits fuel pattern which does not resemble standard



BTXE	
Client: Secor	Analysis Method: EPA 8020
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123652-001	S-WW-4	24743	12/08/95	12/09/95	12/09/95	
123652-002	U-NW-4	24743	12/08/95	12/09/95	12/09/95	
123652-003	U-SW-3	24756	12/08/95	12/14/95	12/14/95	

Analyte	Units	123652-001	123652-002	123652-003
Diln Fac:		1	1	1
Benzene	ug/Kg	<5	<5	<5
Toluene	ug/Kg	<5	<5	<5
Ethylbenzene	ug/Kg	<5	<5	36
m,p-Xylenes	ug/Kg	<5	<5	16
o-Xylene	ug/Kg	<5	<5	<5
Surrogate				
Trifluorotoluene	%REC	100	100	107
Bromobenzene	%REC	104	100	105



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 08-DEC-95
Lab Job Number: 123621
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Teresa K Morris

Reviewed by:

[Signature]

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2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

LABORATORY NUMBER: 123621
CLIENT: SECOR
LOCATION: Bohannon Development
PROJECT ID: 70074-001-02

DATE SAMPLED: 12/06/95
DATE REPORTED: 12/08/95

CASE NARRATIVE

This analytical set consisted of five soil samples which were received by Curtis & Tompkins Ltd. on 12/06/95. These samples were analyzed for TRPH by EPA 418.1, TPH/extractables and TPH/volatiles. The TPH/volatiles chromatograms did not resemble either gasoline or mineral spirits. All volatiles have been reported as gasoline due to the overlap of hydrocarbon ranges.



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 123621
CLIENT: SECOR
PROJECT ID: 70074-001-02
LOCATION: BOHANNON DEVELOPMENT

DATE SAMPLED: 12/06/95
DATE RECEIVED: 12/06/95
DATE EXTRACTED: 12/06/95
DATE ANALYZED: 12/06/95

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
123621-001	U-EW-1	4,600	25
123621-002	U-WW-1	ND	25
123621-003	U-SW-2	2,300	25
123621-004	U-NW-1	ND	25
123621-005	N-PL	130	25
123621-METHOD BLANK		ND	25

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	98



TEH-Tot Ext Hydrocarbons

Client: Secor
 Project#: 70074-001-02
 Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
 Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123621-001	U-EW-1	24700	12/06/95	12/06/95	12/06/95	
123621-002	U-WW-1	24700	12/06/95	12/06/95	12/07/95	
123621-003	U-SW-2	24700	12/06/95	12/06/95	12/07/95	
123621-004	U-NW-1	24700	12/06/95	12/06/95	12/07/95	

Matrix: Soil

Analyte	Units	123621-001	123621-002	123621-003	123621-004
Diln Fac:		1	1	1	1
Kerosene C10-C16	mg/Kg	990 YL	1.4YL	830 YL	2.9YL
Diesel C12-C22	mg/Kg	240 YL	<1	160 YL	<1
Motor Oil C22-C50	mg/Kg	<25	<25	<25	<25
Surrogate					
Hexacosane	%REC	101	105	110	109

Y: Sample exhibits fuel pattern which does not resemble standard

L: Lighter hydrocarbons than indicated standard



TEH-Tot Ext Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123621-005	N-PL	24700	12/06/95	12/06/95	12/07/95	

Matrix: Soil

Analyte	Units	123621-005
Diln Fac:		1
Kerosene C10-C16	mg/Kg	27 YL
Diesel C12-C22	mg/Kg	5.2YL
Motor Oil C22-C50	mg/Kg	<25
Surrogate		
Hexacosane	%REC	117 ✓

Y: Sample exhibits fuel pattern which does not resemble standard
L: Lighter hydrocarbons than indicated standard



Lab #: 123621

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: 3550
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/06/95
Batch#: 24700	Analysis Date: 12/06/95
Units: mg/Kg	
Diln Fac: 1	

MB Lab ID: QC10240

Analyte	Result	
Kerosene Range	<1.0	✓
Diesel Range	<1.0	
Motor Oil Range	<25	
Surrogate	%Rec	Recovery Limits
Hexacosane	103	60-140



Lab #: 123621

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: 3550
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/06/95
Batch#: 24700	Analysis Date: 12/06/95
Units: mg/Kg	
Diln Fac: 1	

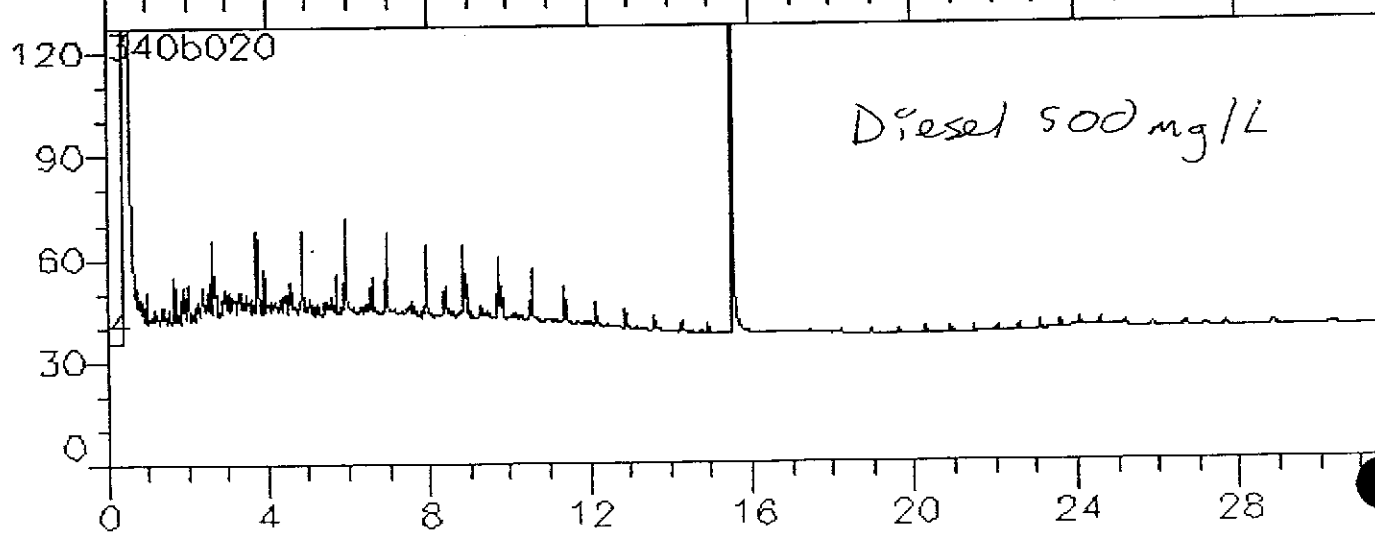
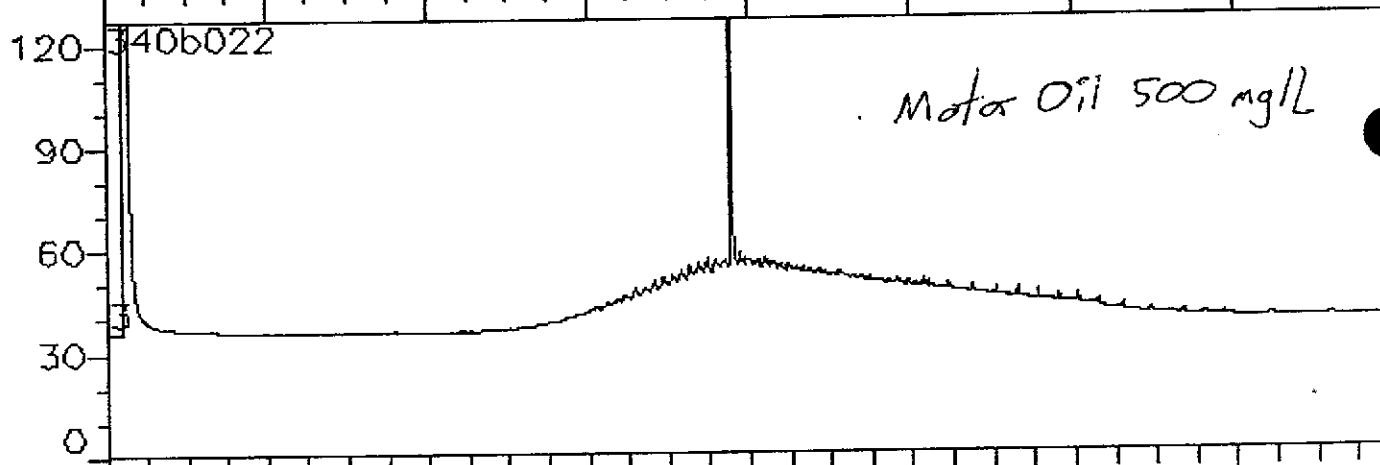
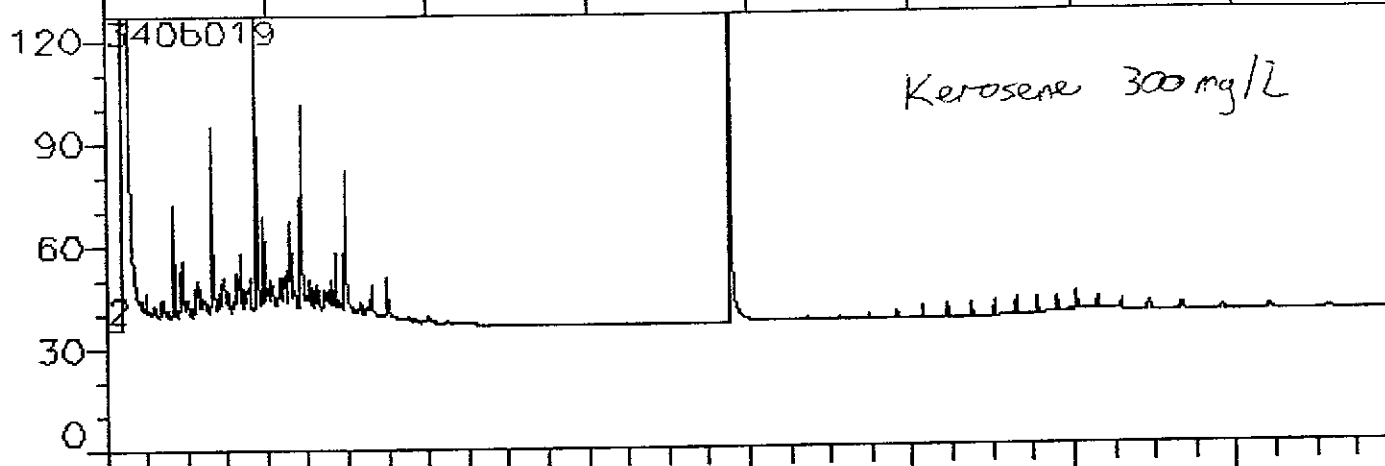
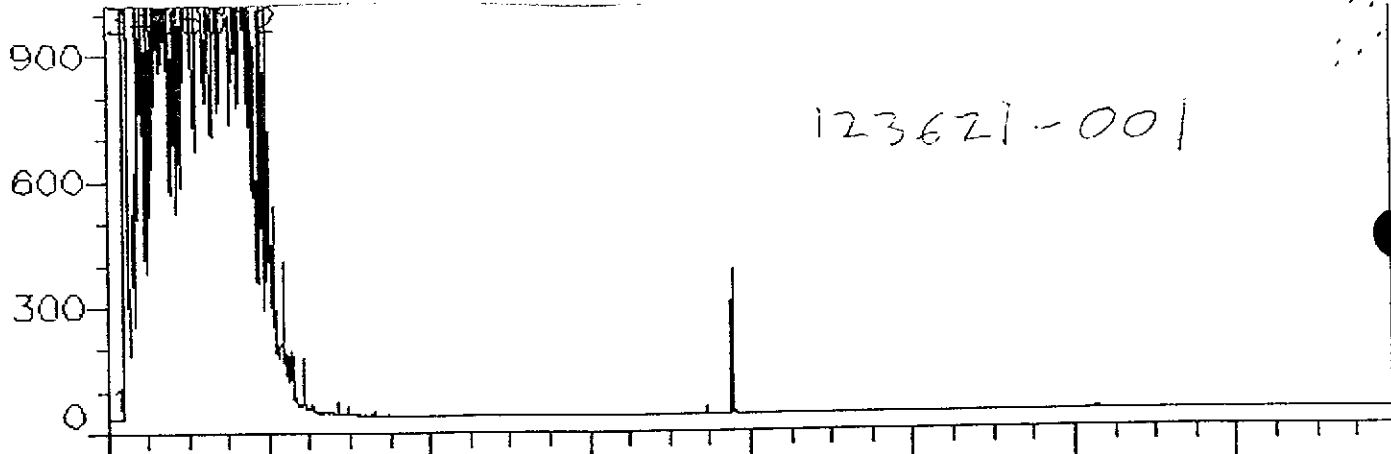
LCS Lab ID: QC10241

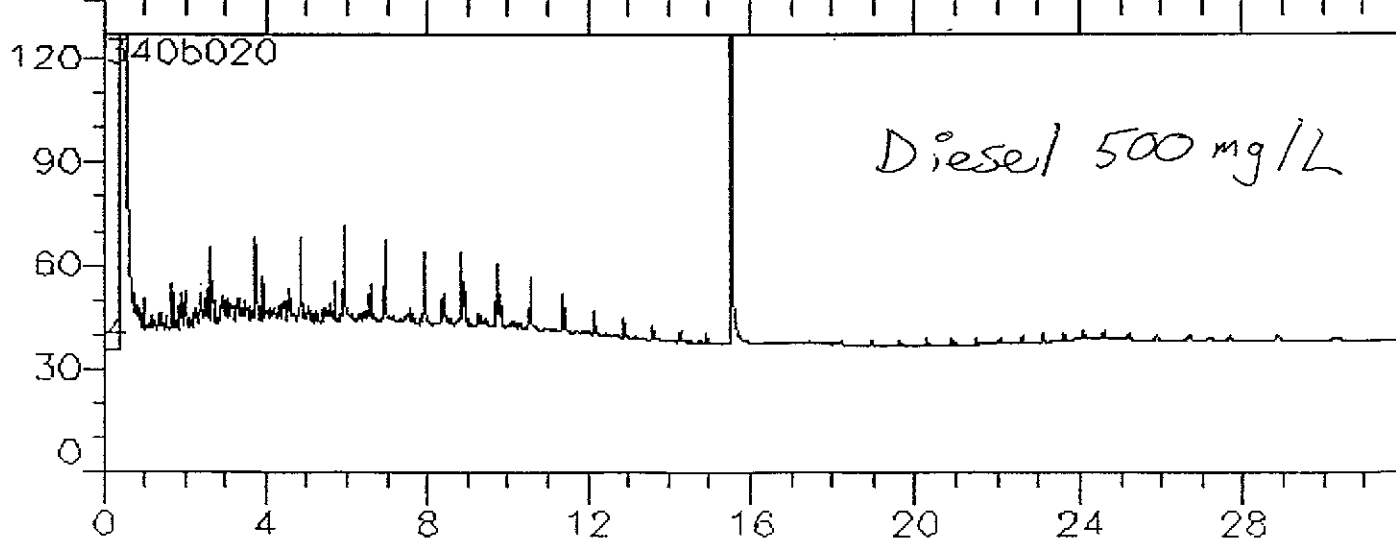
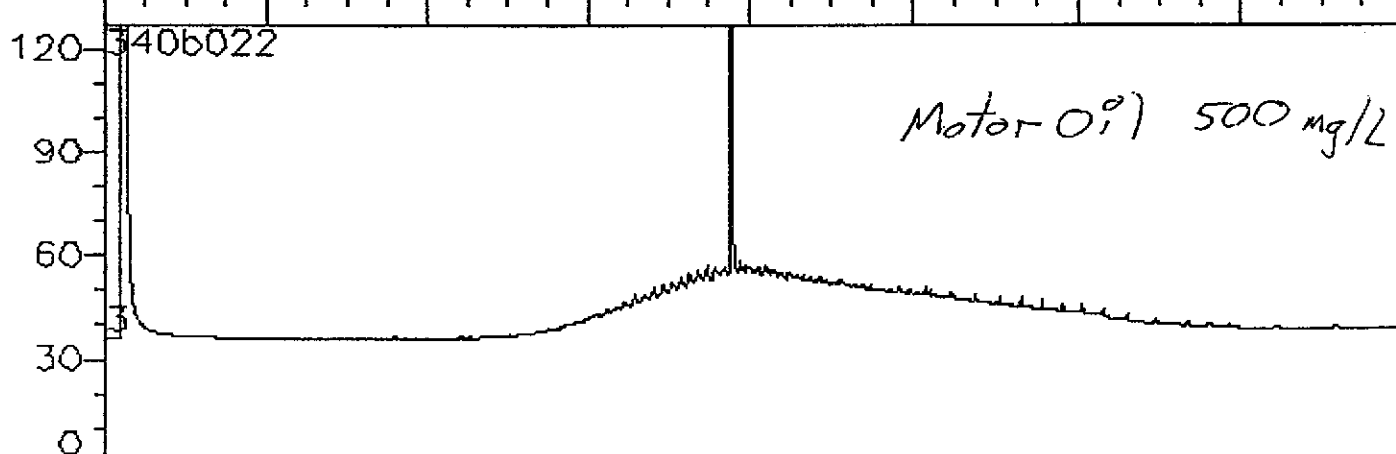
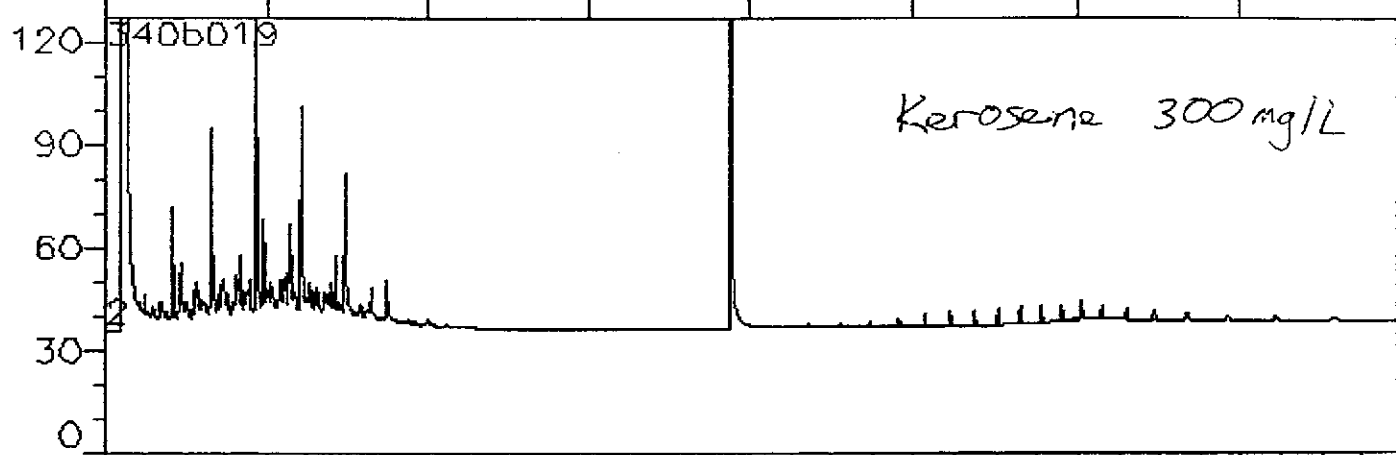
Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	58.9	51.3	115	60-140
Surrogate	%Rec	Limits		
Hexacosane	101	60-140		

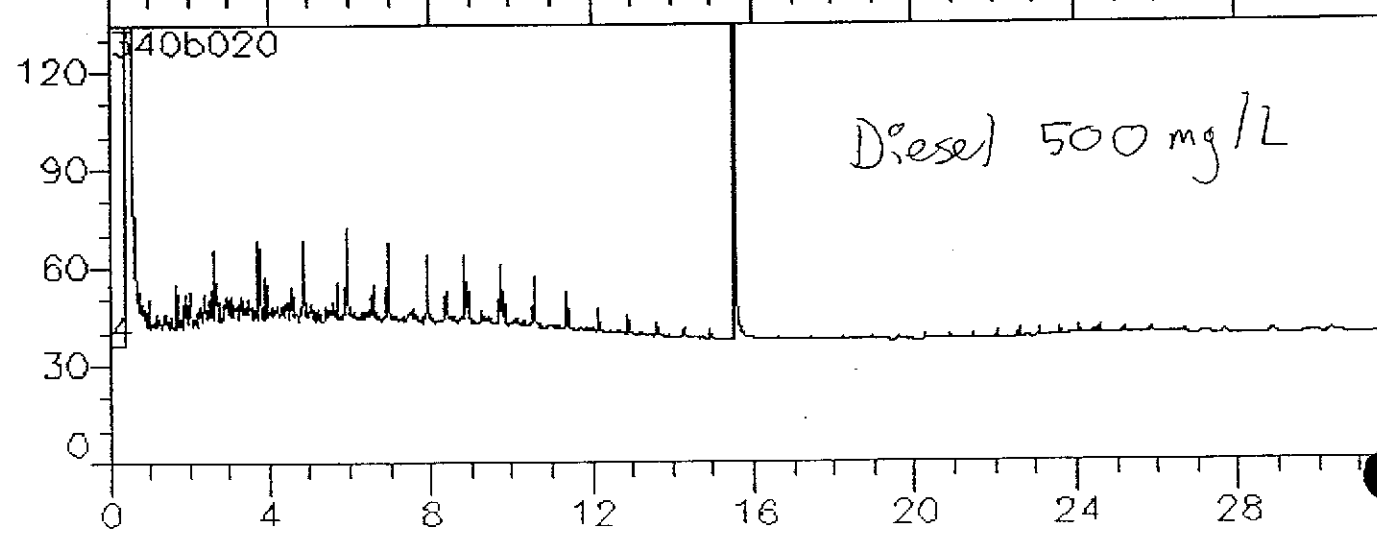
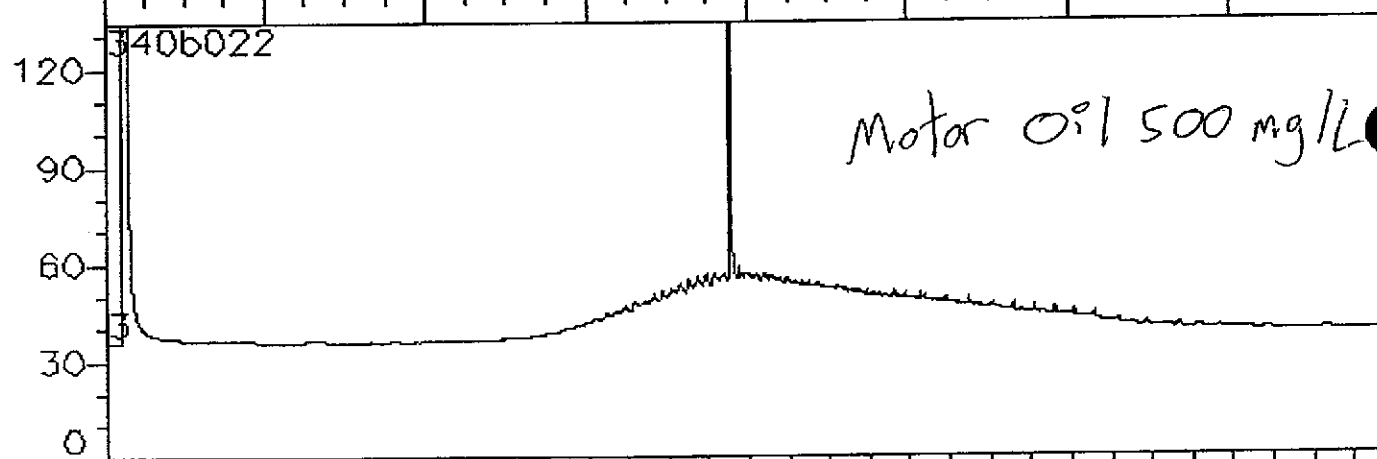
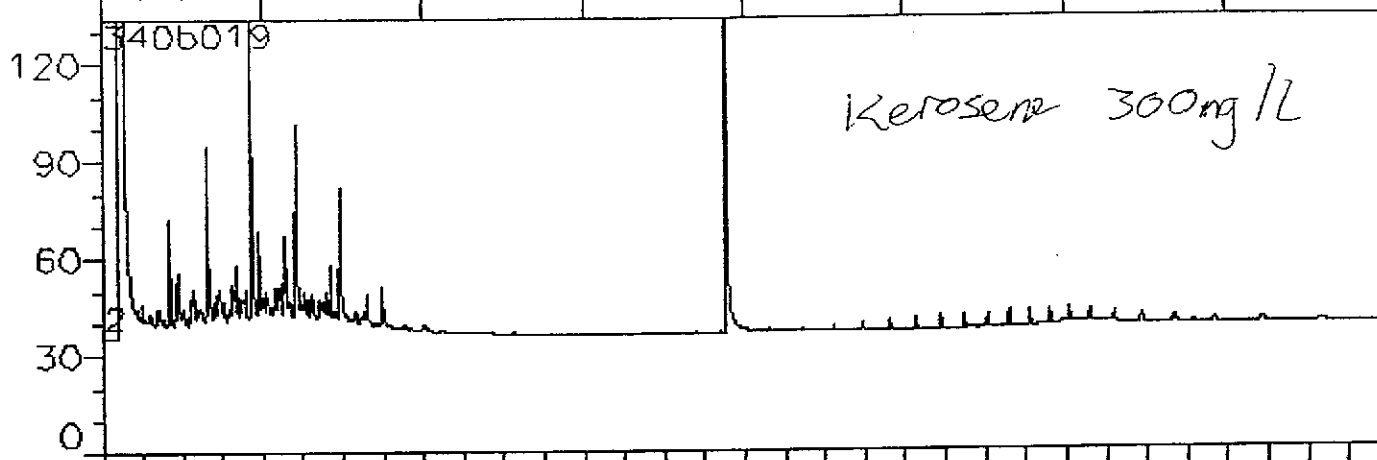
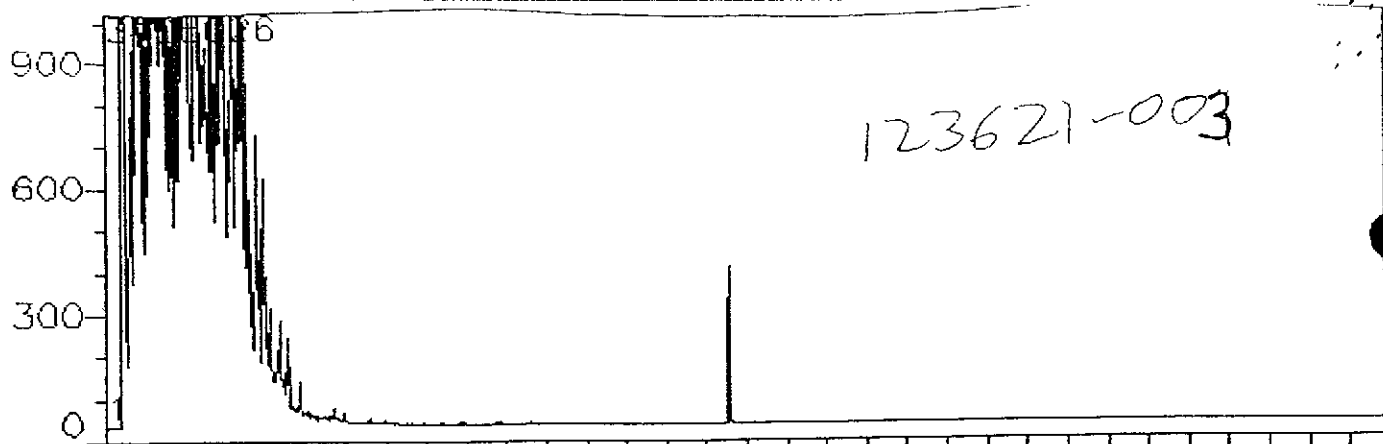
Column to be used to flag recovery and RPD values with an asterisk

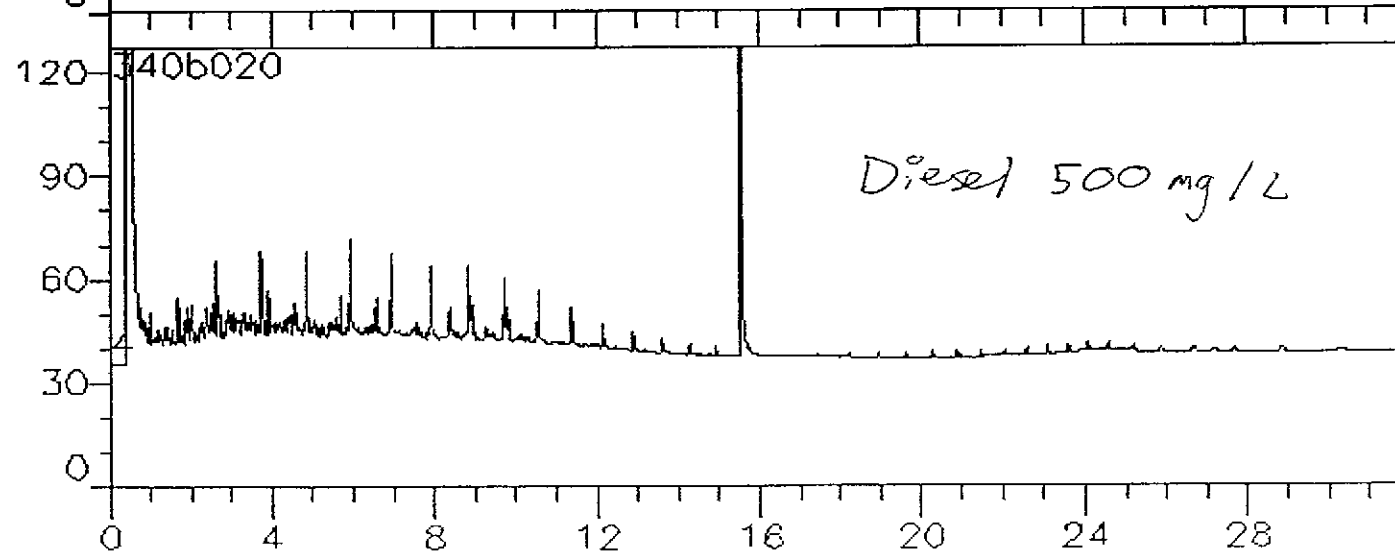
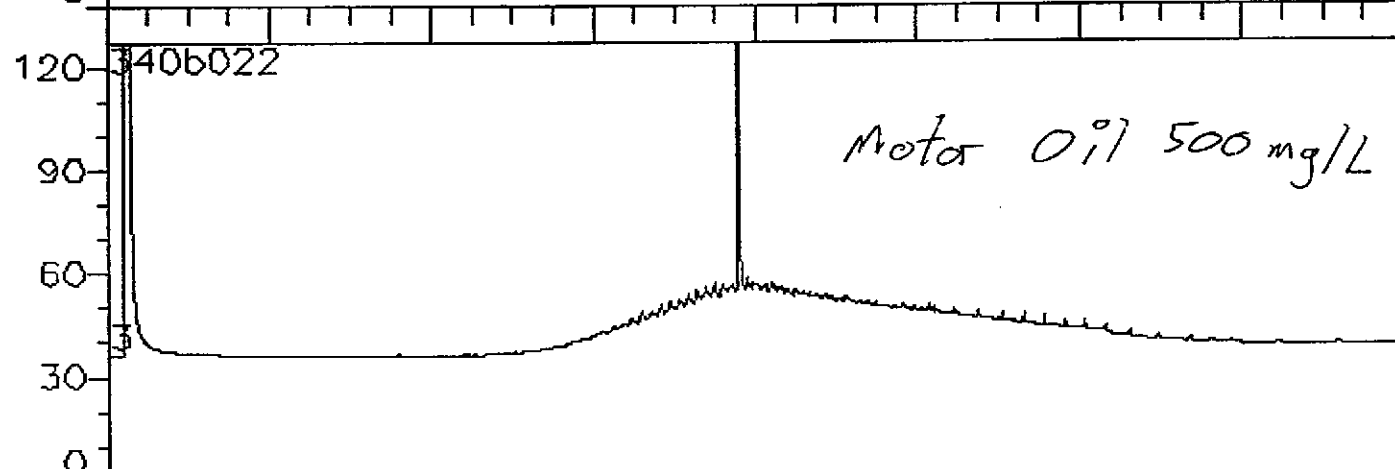
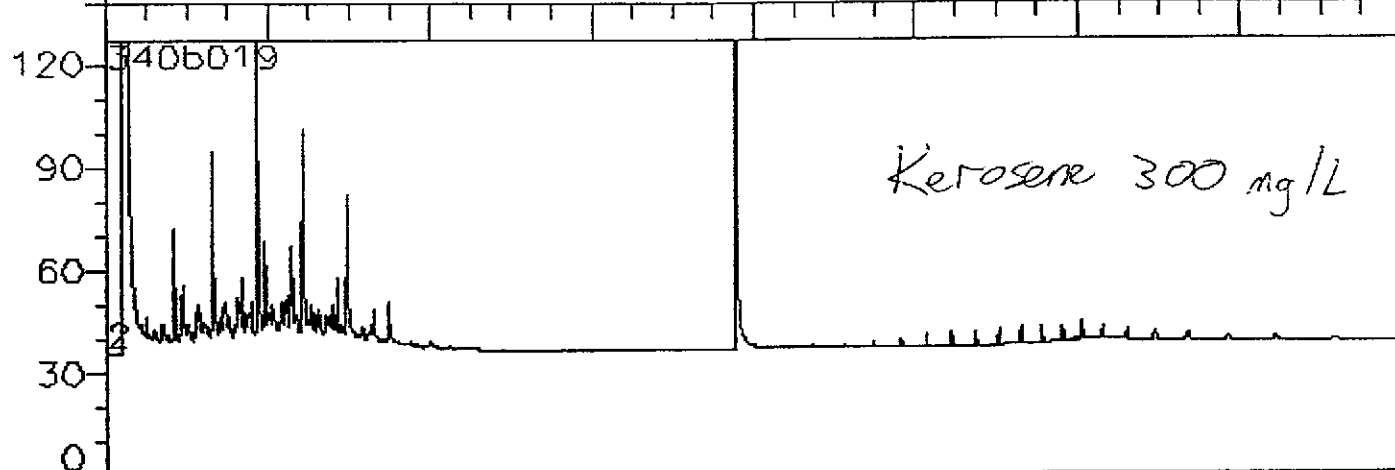
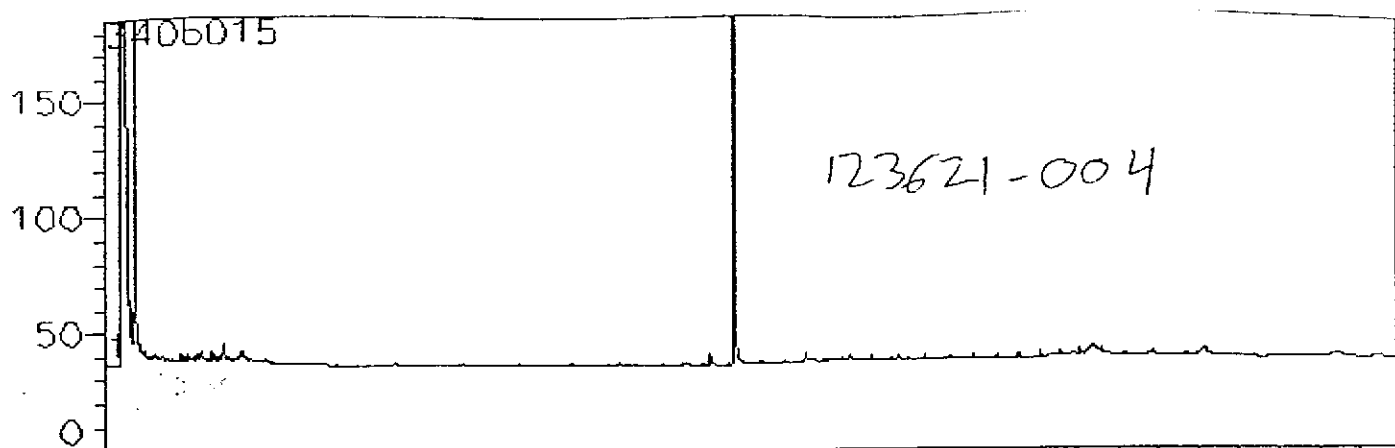
* Values outside of QC limits

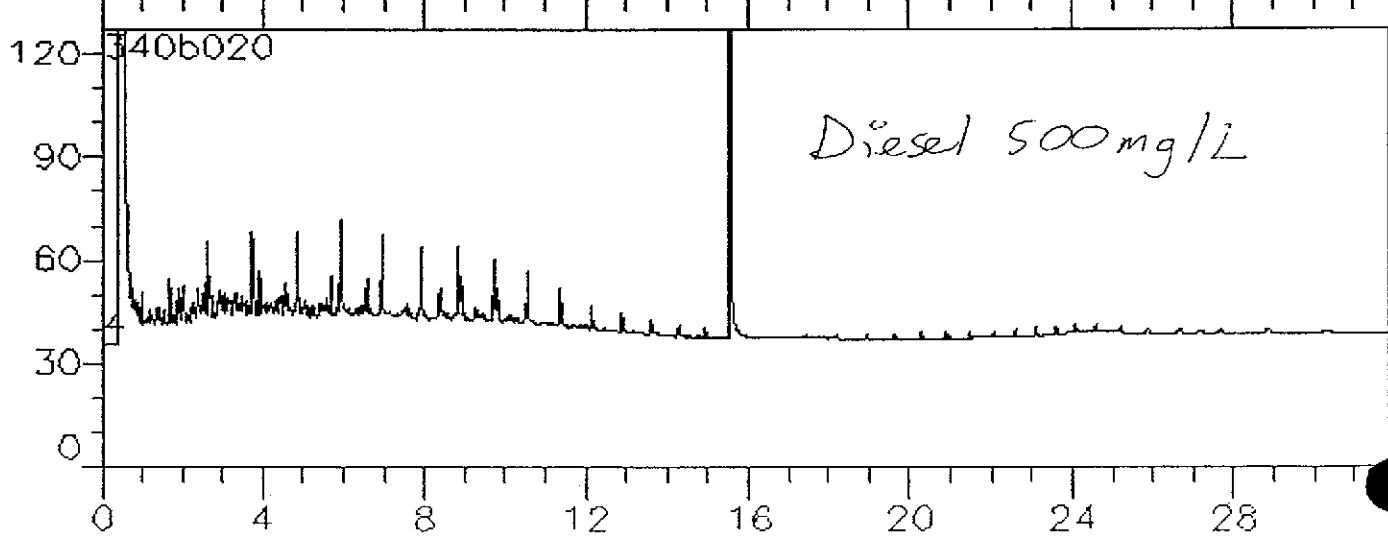
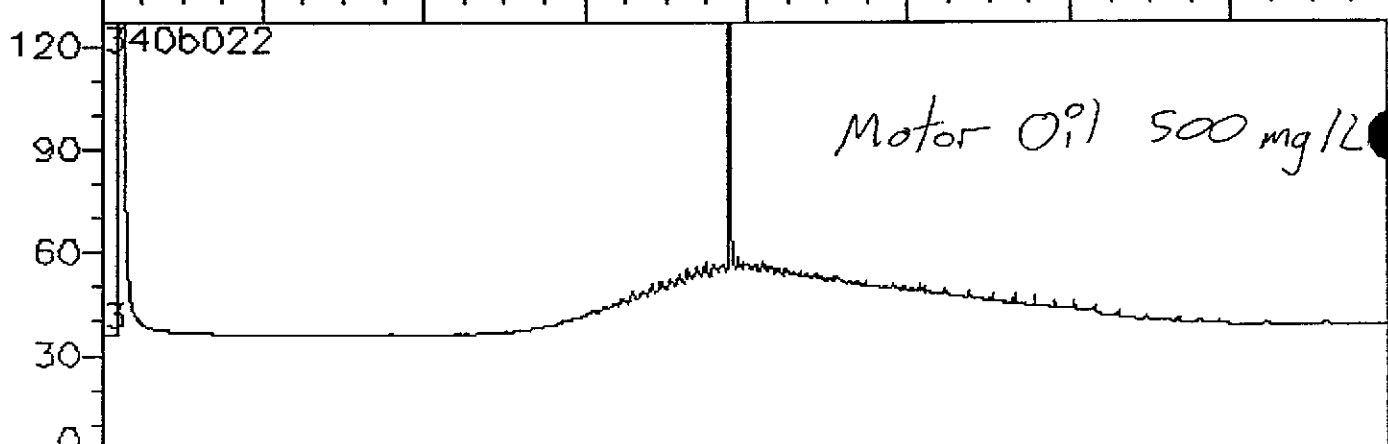
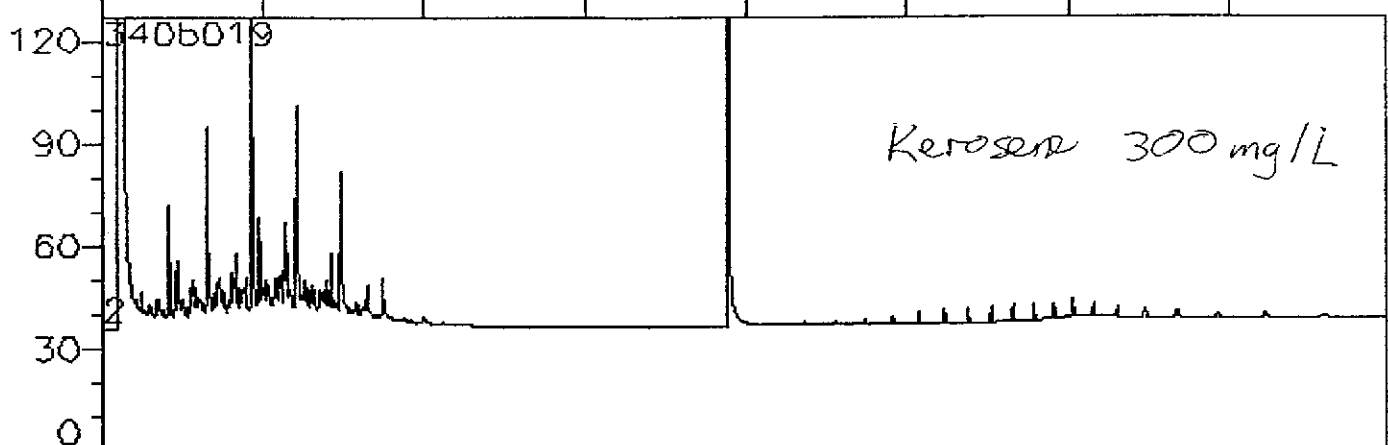
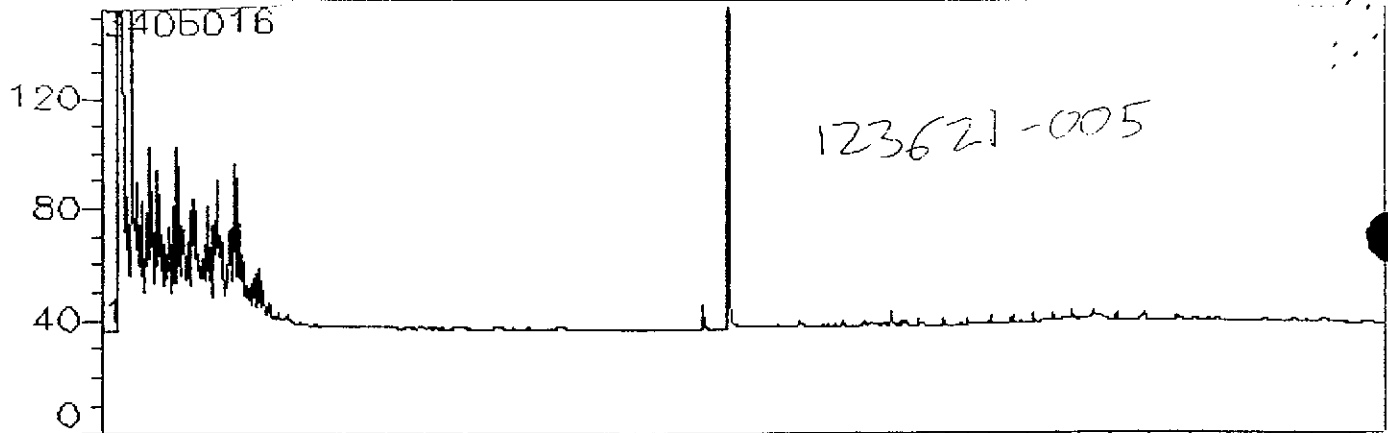
Spike Recovery: 0 out of 1 outside limits













TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123621-001	U-EW-1	24707	12/06/95	12/07/95	12/07/95	
123621-002	U-WW-1	24707	12/06/95	12/07/95	12/07/95	
123621-003	U-SW-2	24707	12/06/95	12/07/95	12/07/95	
123621-004	U-NW-1	24684	12/06/95	12/06/95	12/06/95	

Matrix: Soil

Analyte	Units	123621-001	123621-002	123621-003	123621-004
Diln Fac:		1	1	1	1
Gasoline	mg/Kg	1500 Y	<1	1300 Y	1.6Y
Surrogate					
Trifluorotoluene	%REC	96	91	100	108
Bromobenzene	%REC	73	92	89	110

Y: Sample exhibits fuel pattern which does not resemble standard



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123621-005	N-PL	24707	12/06/95	12/07/95	12/07/95	

Matrix: Soil

Analyte	Units	123621-005	
Diln Fac:		1	
Gasoline	mg/Kg	47	Y
Surrogate			
Trifluorotoluene	%REC	97	
Bromobenzene	%REC	69	* ✓

Y: Sample exhibits fuel pattern which does not resemble standard



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8020
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123621-001	U-EW-1	24707	12/06/95	12/07/95	12/07/95	
123621-002	U-WW-1	24707	12/06/95	12/07/95	12/07/95	
123621-003	U-SW-2	24707	12/06/95	12/07/95	12/07/95	
123621-004	U-NW-1	24684	12/06/95	12/06/95	12/06/95	

Matrix: Soil

Analyte	Units	123621-001	123621-002	123621-003	123621-004
Diln Fac:		400	1	400	1
Benzene	ug/Kg	<200	<5	<200	61
Toluene	ug/Kg	<200	<5	<200	<5
Ethylbenzene	ug/Kg	21000	<5	24000	7.4
m,p-Xylenes	ug/Kg	8800	<5	10000	<5
o-Xylene	ug/Kg	<200	<5	<200	<5
Surrogate					
Trifluorotoluene	%REC	126	98	140	110
Bromobenzene	%REC	99	95	100	111

Values outside of QC limits



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8020
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123621-005	N-PL	24707	12/06/95	12/07/95	12/07/95	

Matrix: Soil

Analyte	Units	123621-005
Diln Fac:		25
Benzene	ug/Kg	<13
Toluene	ug/Kg	<13
Ethylbenzene	ug/Kg	<13
m,p-Xylenes	ug/Kg	200
o-Xylene	ug/Kg	<13
Surrogate		
Trifluorotoluene	%REC	122
Bromobenzene	%REC	96



Lab #: 123621

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client:	Secor	Analysis Method:	CA LUFT (EPA 8015M)
Project#:	70074-001-02	Prep Method:	EPA 5030
Location:	Bohannon Development		
METHOD BLANK			
Matrix:	Soil	Prep Date:	12/06/95
Batch#:	24684	Analysis Date:	12/06/95
Units:	mg/Kg		
Diln Fac:	1		

MB Lab ID: QC10174

Analyte	Result	
Gasoline	<1.0	✓
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	96	52-127
Bromobenzene	93	45-140



Lab #: 123621

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons			
Client:	Secor	Analysis Method:	CA LUFT (EPA 8015M)
Project#:	70074-001-02	Prep Method:	EPA 5030
Location:	Bohannon Development		
METHOD BLANK			
Matrix:	Soil	Prep Date:	12/07/95
Batch#:	24707	Analysis Date:	12/07/95
Units:	mg/Kg		
Diln Fac:	1		

MB Lab ID: QC10270

Analyte	Result		
Gasoline	<1.0	✓	
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	88		52-127
Bromobenzene	79	✓	45-140

Lab #: 123621

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/06/95
Batch#: 24684	Analysis Date: 12/06/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC10174

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	97	43-114
Bromobenzene	94	47-112



Lab #: 123621

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
METHOD BLANK	
Matrix: Soil	Prep Date: 12/07/95
Batch#: 24707	Analysis Date: 12/07/95
Units: ug/Kg	
Diln Fac: 1	

MB Lab ID: QC10270

Analyte	Result		Recovery Limits
Benzene	<5.0	✓	
Toluene	<5.0		
Ethylbenzene	<5.0		
m,p-Xylenes	<5.0		
o-Xylene	<5.0		
Surrogate	%Rec		Recovery Limits
Trifluorotoluene	96	✓	43-114
Bromobenzene	87		47-112



Lab #: 123621

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 24684
Units: mg/Kg
Diln Fac: 1

Prep Date: 12/06/95
Analysis Date: 12/06/95

LCS Lab ID: QC10172

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10.2	10	102	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	111	52-127		
Bromobenzene	102	45-140		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits



Lab #: 123621

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/07/95
Batch#: 24707	Analysis Date: 12/07/95
Units: mg/Kg	
Diln Fac: 1	

LCS Lab ID: QC10269

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	9.5	10	95 ✓	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	98 ✓	52-127		
Bromobenzene	89	45-140		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



Lab #: 123621

BATCH QC REPORT

BTXE			
Client: Secor		Analysis Method: BTXE	
Project#: 70074-001-02		Prep Method: EPA 5030	
Location: Bohannon Development			
LABORATORY CONTROL SAMPLE			
Matrix: Soil		Prep Date: 12/06/95	
Batch#: 24684		Analysis Date: 12/06/95	
Units: ug/Kg			
Diln Fac: 1			

LCS Lab ID: QC10173

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	104.1	100	104	80-120
Toluene	104.7	100	105	80-120
Ethylbenzene	103.8	100	104	80-120
m,p-Xylenes	206.6	200	103	80-120
o-Xylene	111.2	100	111	80-120
Surrogate	%Rec			Limits
Trifluorotoluene	98			43-114
Bromobenzene	96			47-112

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123621

BATCH QC REPORT

BTXE	
Client: Secor	Analysis Method: BTXE
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	
LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 12/07/95
Batch#: 24707	Analysis Date: 12/07/95
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC10268

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	99.2	100	99	80-120
Toluene	98.8	100	99	80-120
Ethylbenzene	98.5	100	99	80-120
m,p-Xylenes	189.1	200	95	80-120
o-Xylene	102.8	100	103	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	93	43-114		
Bromobenzene	84	47-112		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 123621

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor	Analysis Method: CA LUFT (EPA 8015M)
Project#: 70074-001-02	Prep Method: EPA 5030
Location: Bohannon Development	

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ	Sample Date: 12/05/95
Lab ID: 123598-002	Received Date: 12/05/95
Matrix: Soil	Prep Date: 12/06/95
Batch#: 24684	Analysis Date: 12/06/95
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC10175

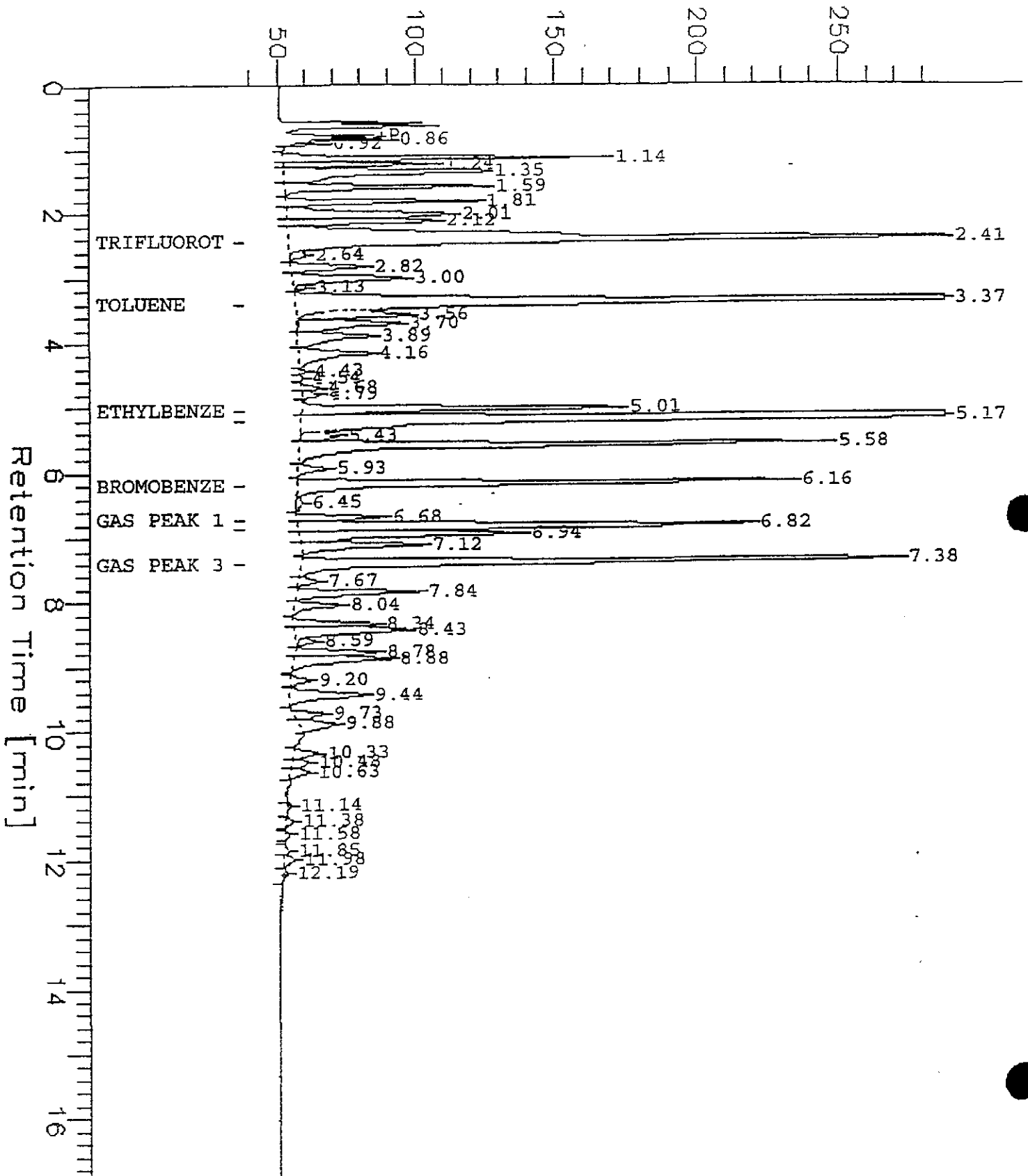
Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	10	<1.000	10.8	108 ✓	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene	109 ✓	52-127			
Bromobenzene	110	45-140			

MSD Lab ID: QC10176

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	10	11.5	115 ✓	75-125	6 ✓	<20
Surrogate	%Rec	Limits				
Trifluorotoluene	111 ✓	52-127				
Bromobenzene	113	45-140				

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits
 RPD: 0 out of 1 outside limits
 Spike Recovery: 0 out of 2 outside limits

Gasoline Calibration Stacked Response [mV]



FileName : G:\GC04\340J022.raw
 Start Time : 0.00 min
 Scale Factor: -1

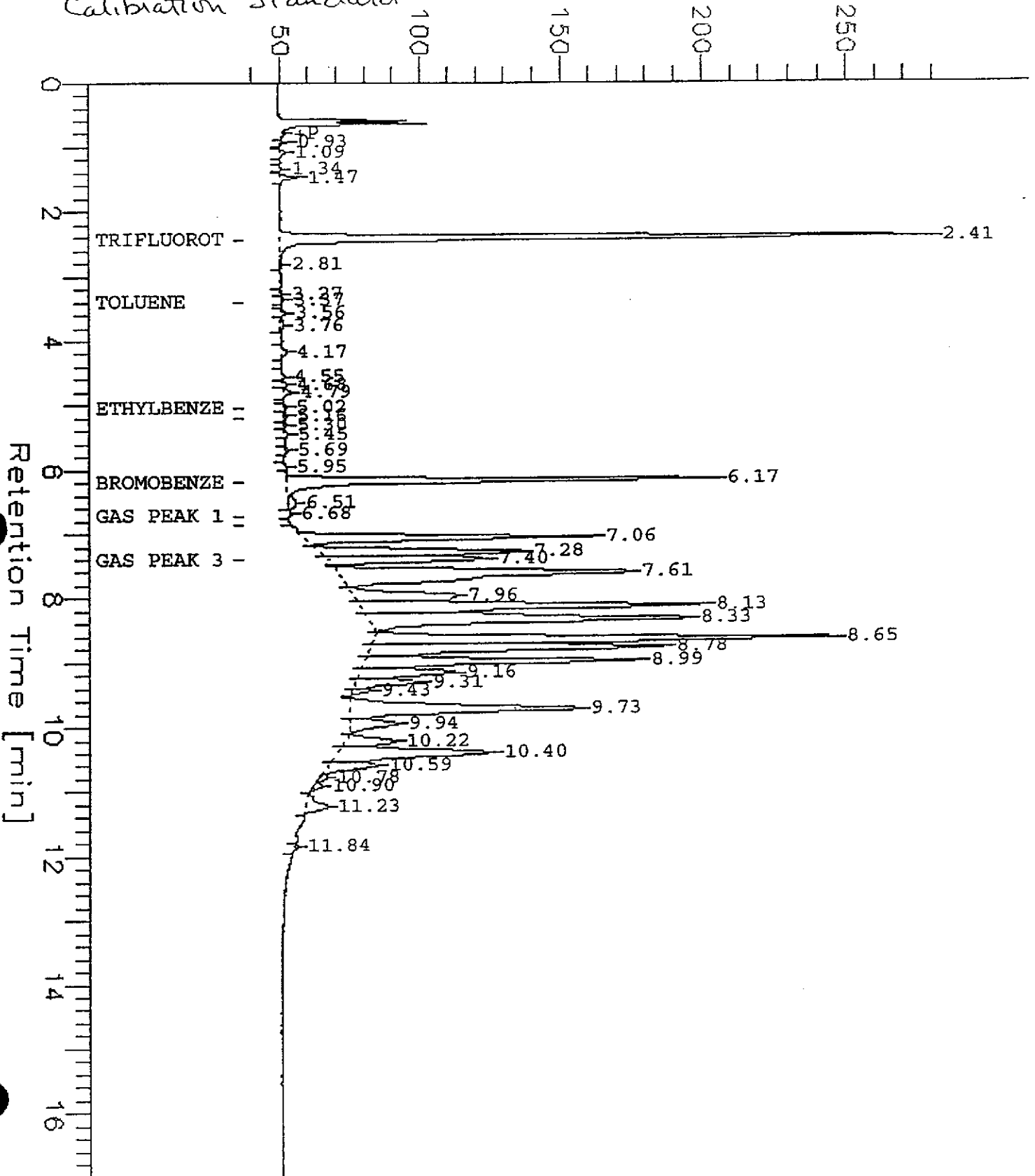
End Time : 17.00 min
 Plot Offset: 37 mV

Date : 12/6/95 10:07 PM
 Low Point : 36.99 mV
 Plot Scale: 250 mV

Page 1 of 1
 High Point : 286.99 mV

Mineral Spirits
 Calibration Standard

Response [mV]



FileName : G:\GC04\341J005.raw
 Start Time : 0.00 min
 Scale Factor: -1

End Time : 17.00 min
 Plot Offset: 38 mV

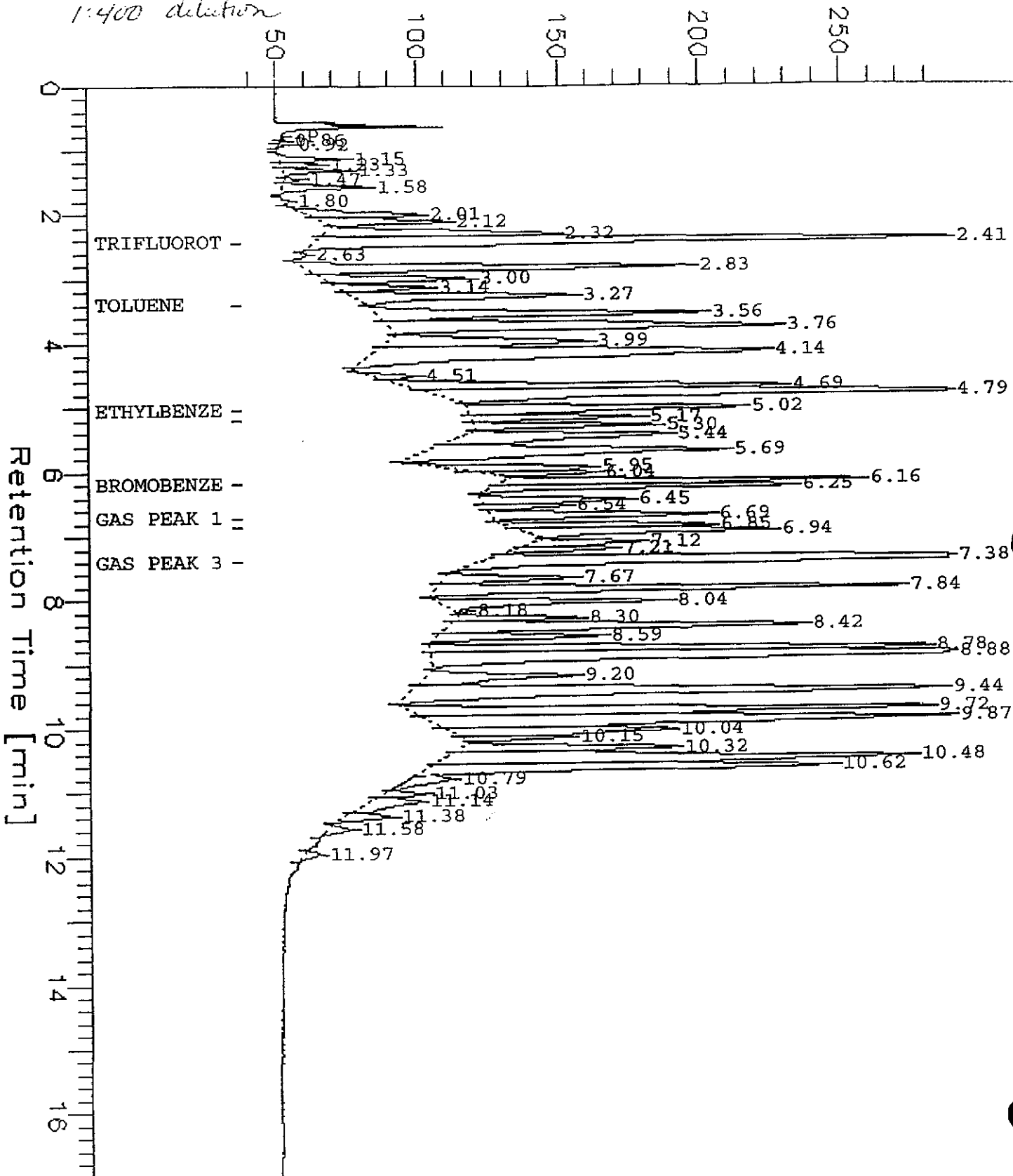
Date : 12/7/95 1:37 PM
 Low Point : 37.49 mV
 Plot Scale: 250 mV

Page 1 of 1
 High Point : 287.49 mV

123621-1

1:400 detection

Response [mV]



FileName : G:\GC04\341J002.raw
Start Time : 0.00 min
Scale Factor: -1

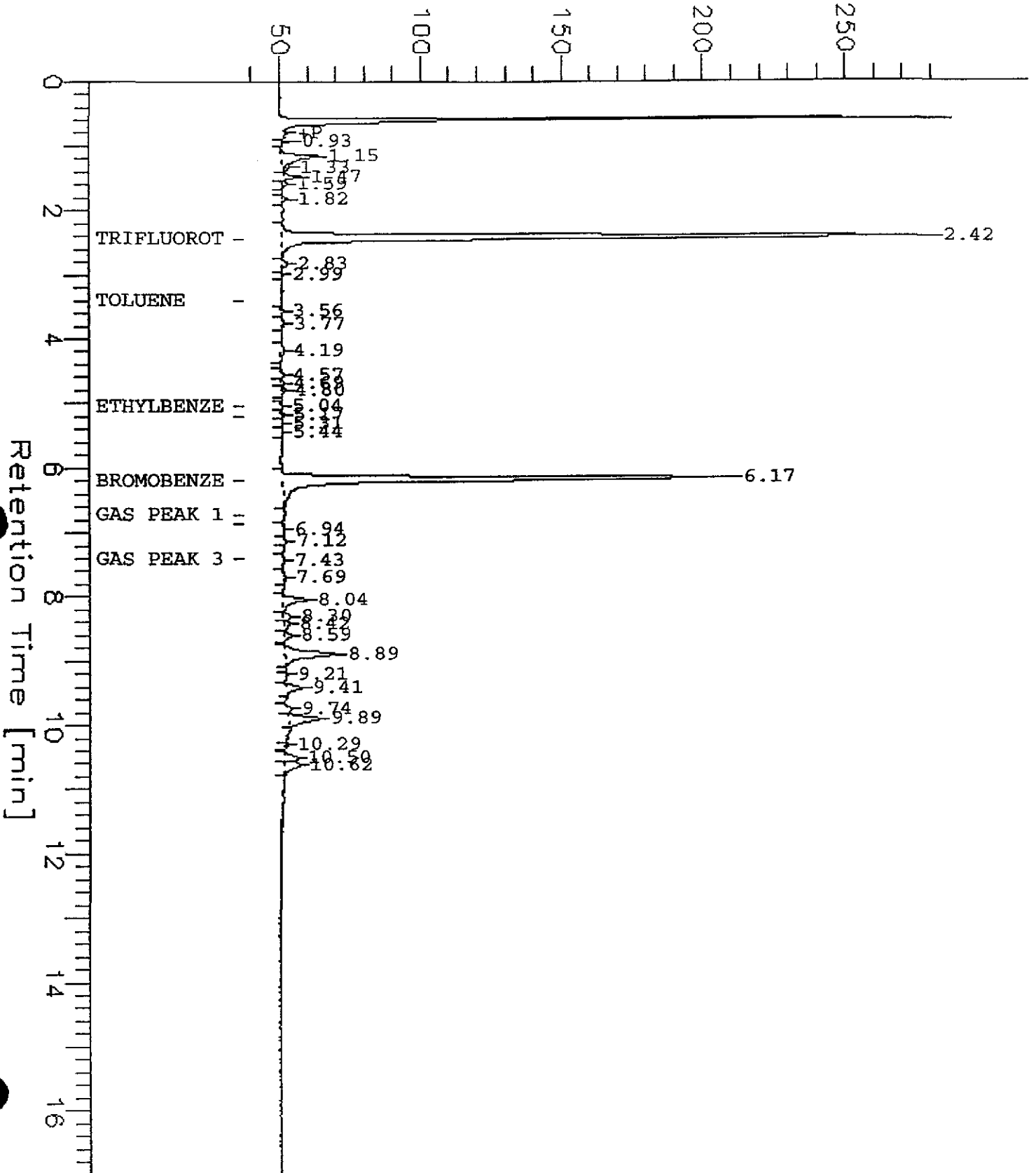
End Time : 17.00 min
Plot Offset: 38 mV

Date : 12/7/95 11:52 AM
Low Point : 37.50 mV
Plot Scale: 250 mV

Page 1 of 1
High Point : 287.50 mV

123621-2

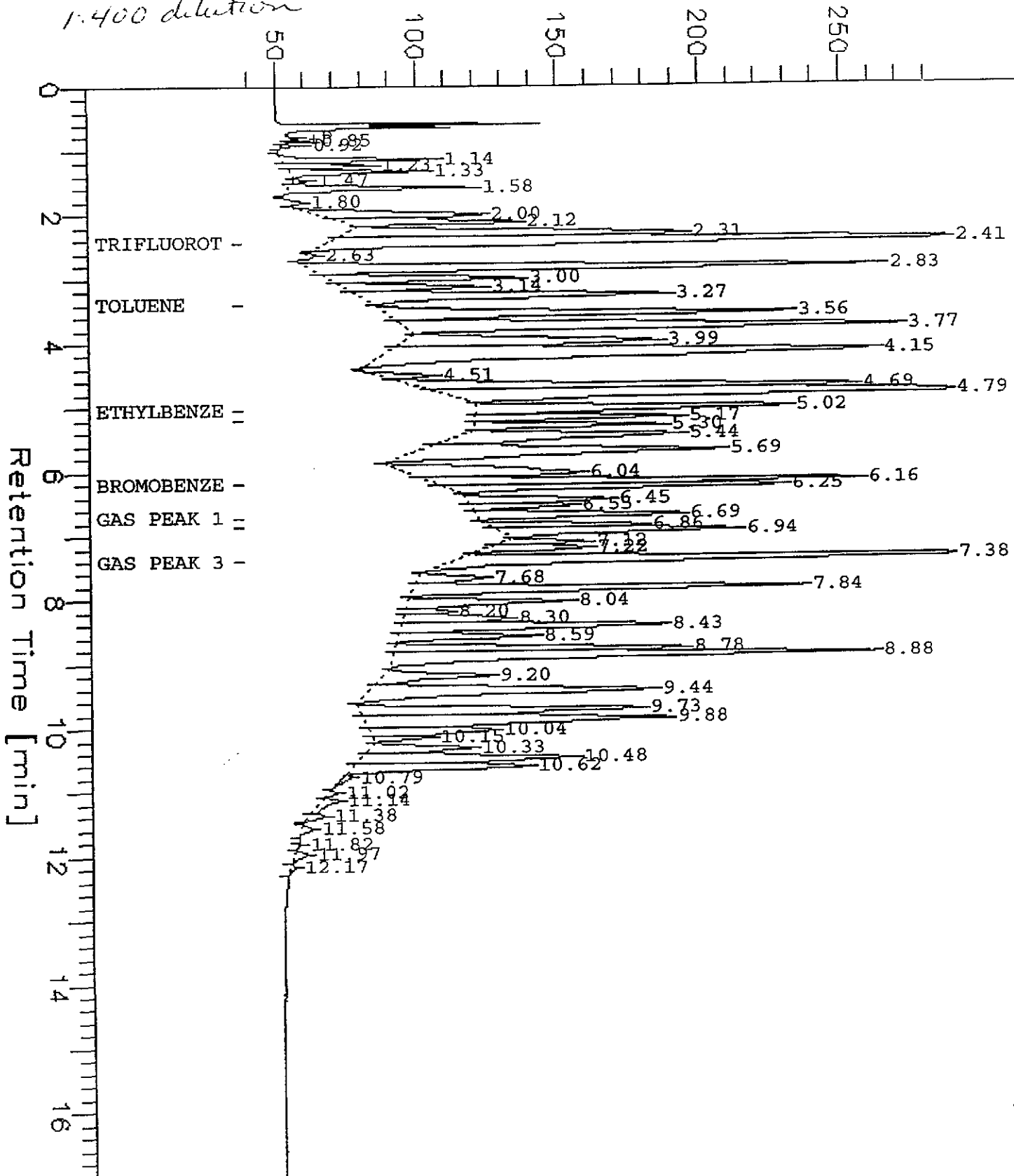
Response [mV]



123621-3

Response [mV]

1.400 dilution



FileName : G:\GC04\340J018.raw
 Start Time : 0.00 min
 Scale Factor: -1

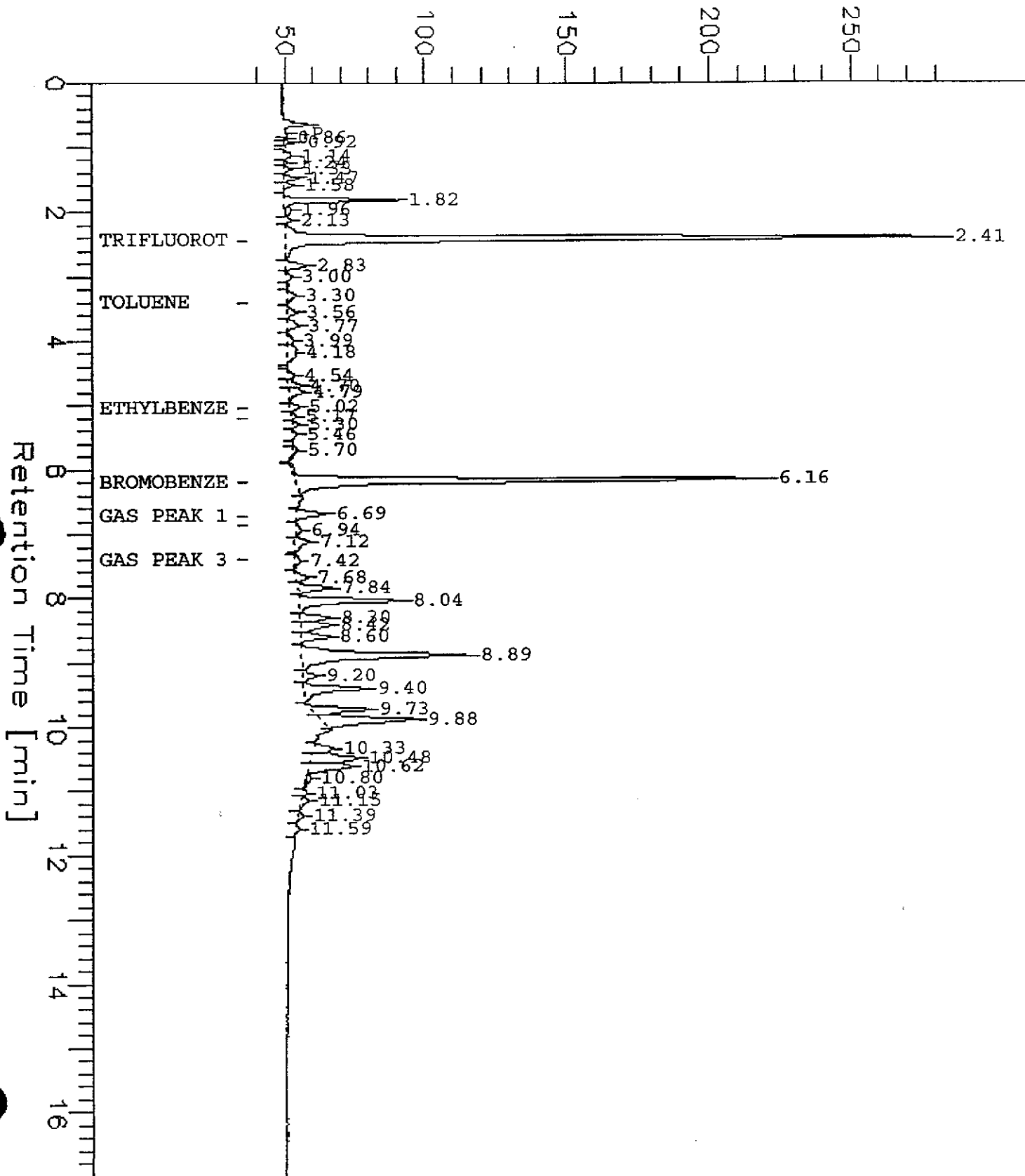
End Time : 17.00 min
 Plot Offset: 37 mV

Date : 12/6/95 8:14 PM
 Low Point : 36.54 mV
 Plot Scale: 250 mV

Page 1 of 1
 High Point : 286.54 mV

123621-4

Response [mV]



FileName : G:\GC04\341J003.raw
Start Time : 0.00 min
Scale Factor: -1

End Time : 17.00 min
Plot Offset: 38 mV

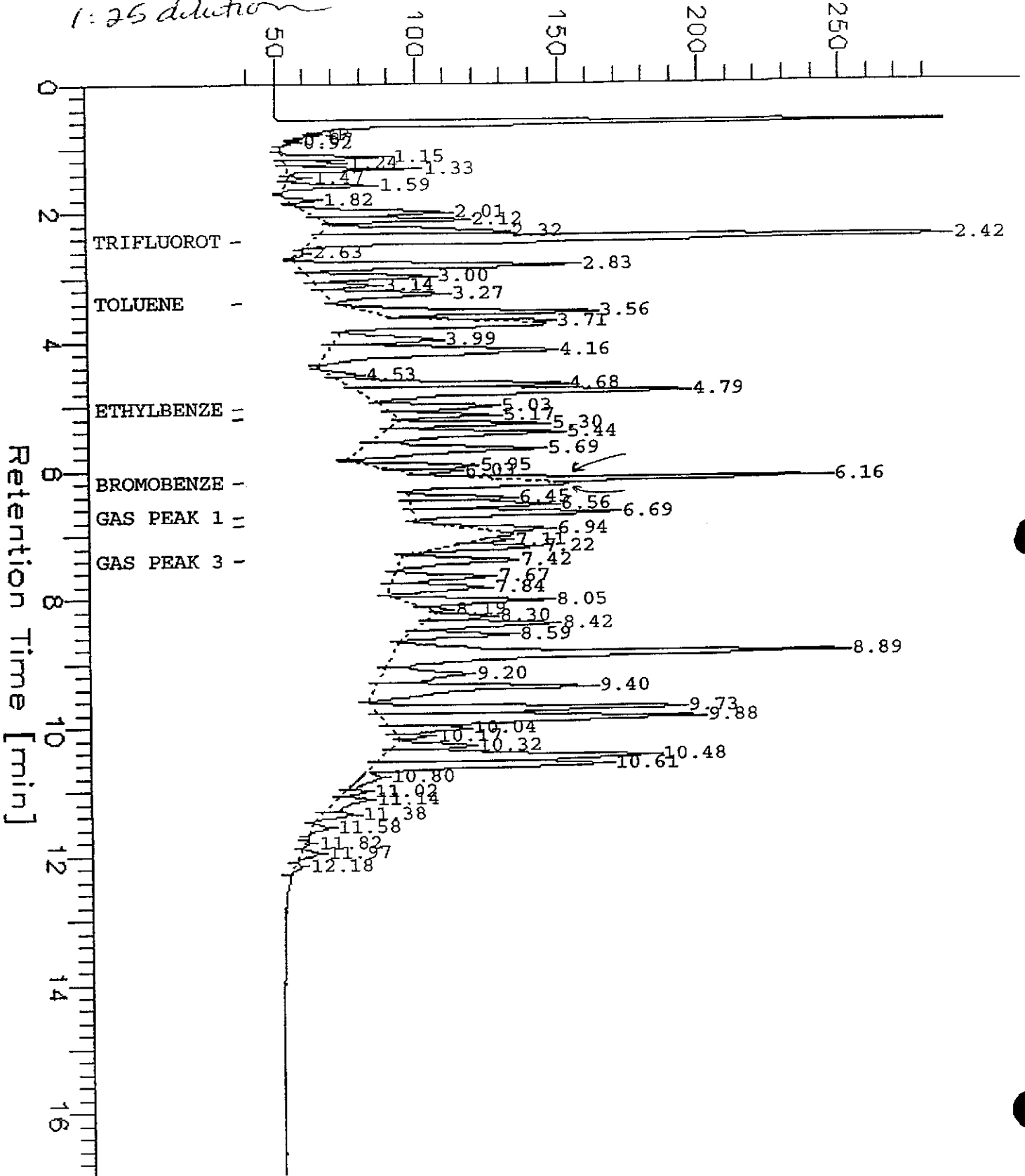
Date : 12/7/95 12:26 PM
Low Point : 37.58 mV
Plot Scale: 250 mV

Page 1 of 1
High Point : 287.58 mV

123621-5

1:25 dilution

Response [mV]





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Secor
1390 Willow Pass Rd.
Concord, CA 94520

Date: 29-DEC-95
Lab Job Number: 123632
Project ID: 70074-001-02
Location: Bohannon Development

Reviewed by:

Reviewed by:

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TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123632-001	U-NW-2	24725	12/07/95	12/08/95	12/08/95	
123632-002	U-NW-3	24725	12/07/95	12/08/95	12/08/95	
123632-003	U-WW-2	24725	12/07/95	12/08/95	12/08/95	
123632-004	U-WW-3	24725	12/07/95	12/08/95	12/08/95	

Analyte	Units	123632-001	123632-002	123632-003	123632-004
Diln Fac:		1	1	1	1
Gasoline	mg/Kg	<1	3.8Y	<1	<1
Mineral Spirits	mg/Kg	<2	13 Y	2.1Y	<2
Surrogate					
Trifluorotoluene	%REC	99	102	100	99
Bromobenzene	%REC	101	114	105	102

Y: Sample exhibits fuel pattern which does not resemble standard



TVH-Total Volatile Hydrocarbons

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123632-005	U-EW-2	24725	12/07/95	12/08/95	12/08/95	
123632-006	U-F-1	24725	12/07/95	12/08/95	12/08/95	
123632-007	U-EW-1A	24725	12/07/95	12/08/95	12/08/95	

Matrix: Soil

Analyte	Units	123632-005	123632-006	123632-007
Diln Fac:		1	25	500
Gasoline	mg/Kg	1.3Y	27 Y	2100 Y
Surrogate				
Trifluorotoluene	%REC	98	105	108
Bromobenzene	%REC	103	106	96

Y: Sample exhibits fuel pattern which does not resemble standard



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: BTXE
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123632-001	U-NW-2	24725	12/07/95	12/08/95	12/08/95	
123632-002	U-NW-3	24725	12/07/95	12/08/95	12/08/95	
123632-003	U-WW-2	24725	12/07/95	12/08/95	12/08/95	
123632-004	U-WW-3	24725	12/07/95	12/08/95	12/08/95	

Analyte	Units	123632-001	123632-002	123632-003	123632-004
Diln Fac:		1	1	1	1
Benzene	ug/Kg	<5	180	<5	<5
Toluene	ug/Kg	<5	<5	<5	<5
Ethylbenzene	ug/Kg	<5	12	<5	<5
m,p-Xylenes	ug/Kg	<5	5.3	<5	<5
o-Xylene	ug/Kg	<5	<5	<5	<5
Surrogate					
Trifluorotoluene	%REC	100	108	102	103
Bromobenzene	%REC	100	108	104	102



BTXE

Client: Secor
Project#: 70074-001-02
Location: Bohannon Development

Analysis Method: EPA 8020
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123632-005	U-EW-2	24725	12/07/95	12/08/95	12/08/95	
123632-006	U-F-1	24725	12/07/95	12/08/95	12/08/95	
123632-007	U-EW-1A	24725	12/07/95	12/08/95	12/08/95	

Matrix: Soil

Analyte	Units	123632-005	123632-006	123632-007
Diln Fac:		1	25	500
Benzene	ug/Kg	69	410	<250
Toluene	ug/Kg	<5	67	<250
Ethylbenzene	ug/Kg	<5	180	31000
m,p-Xylenes	ug/Kg	<5	170	14000
o-Xylene	ug/Kg	<5	<13	<250
Surrogate				
Trifluorotoluene	%REC	101	120	147 *
Bromobenzene	%REC	102	104	125

* Values outside of QC limits

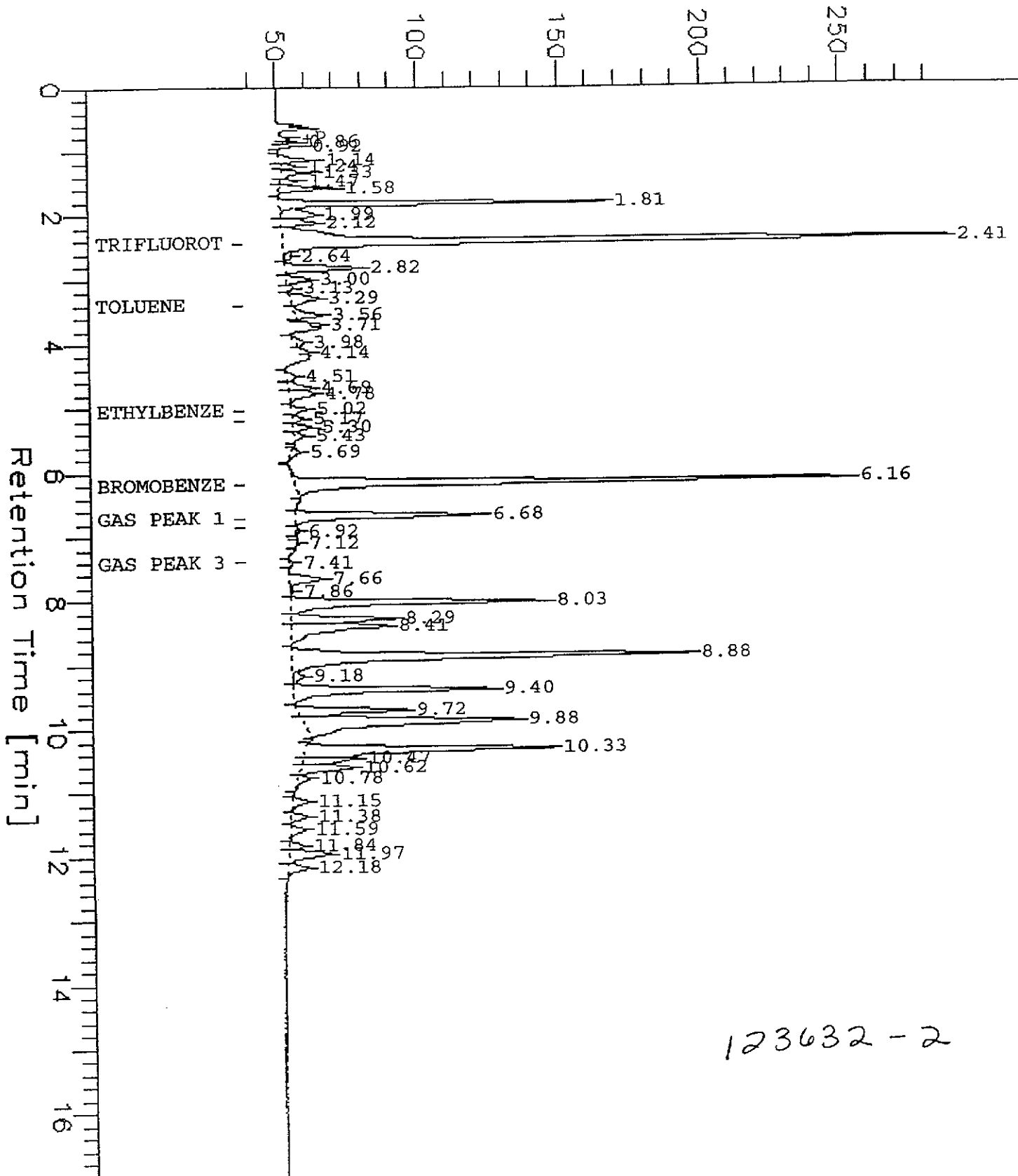
FileName : G:\GC04\341J043.raw
Start Time : 0.00 min
Scale Factor: -1

End Time : 17.00 min
Plot Offset: 38 mV

Date : 12/8/95 8:33 AM
Low Point : 37.99 mV
Plot Scale: 250 mV

Page 1 of 1
High Point : 287.99 mV

Response [mV]



123632-2

FileName : G:\GC04\341J040.raw

Date : 12/8/95 7:10 AM

Page 1 of 1

Start Time : 0.00 min

End Time : 17.00 min

Low Point : 37.86 mV

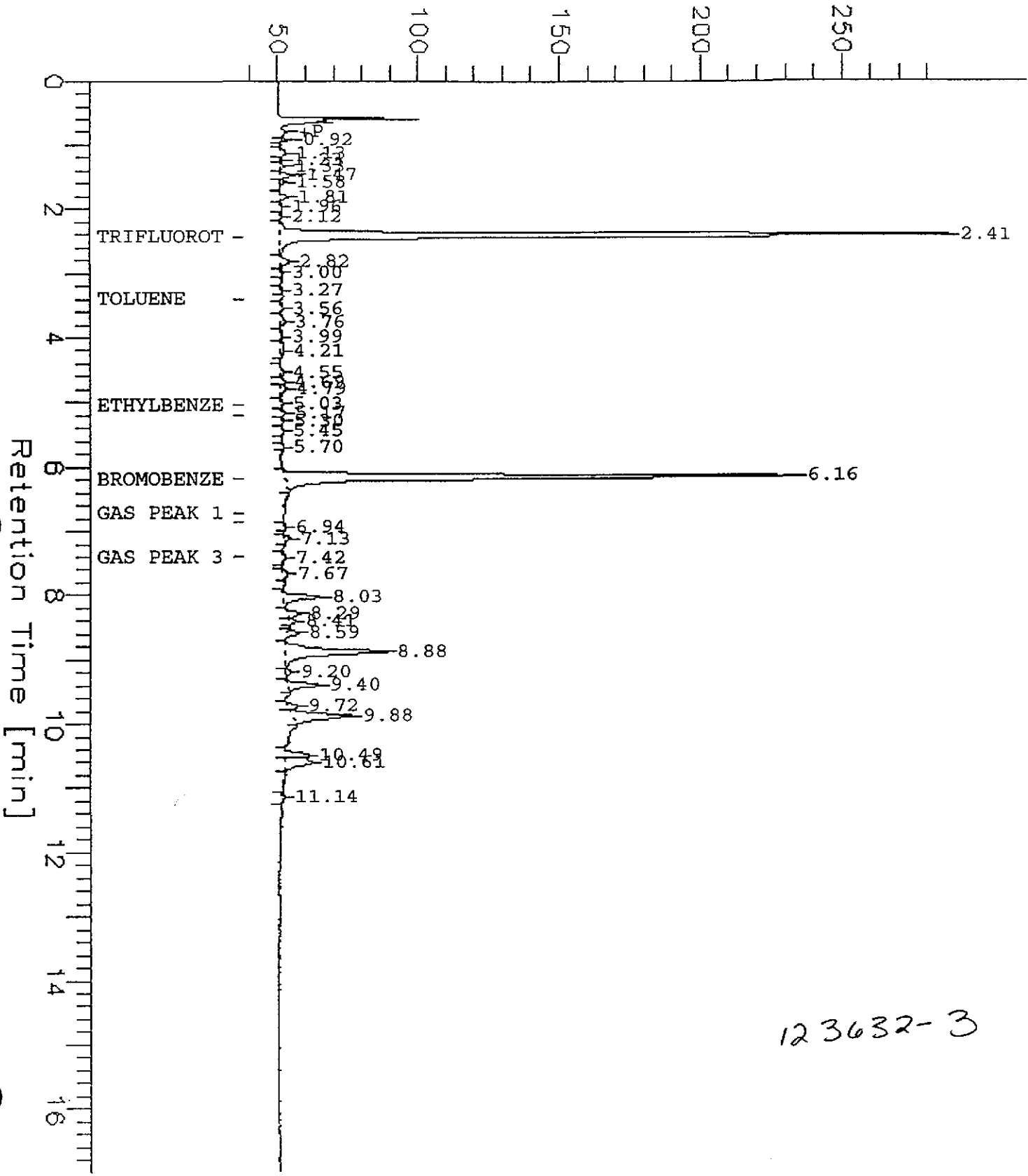
High Point : 287.86 mV

Scale Factor: -1

Plot Offset: 38 mV

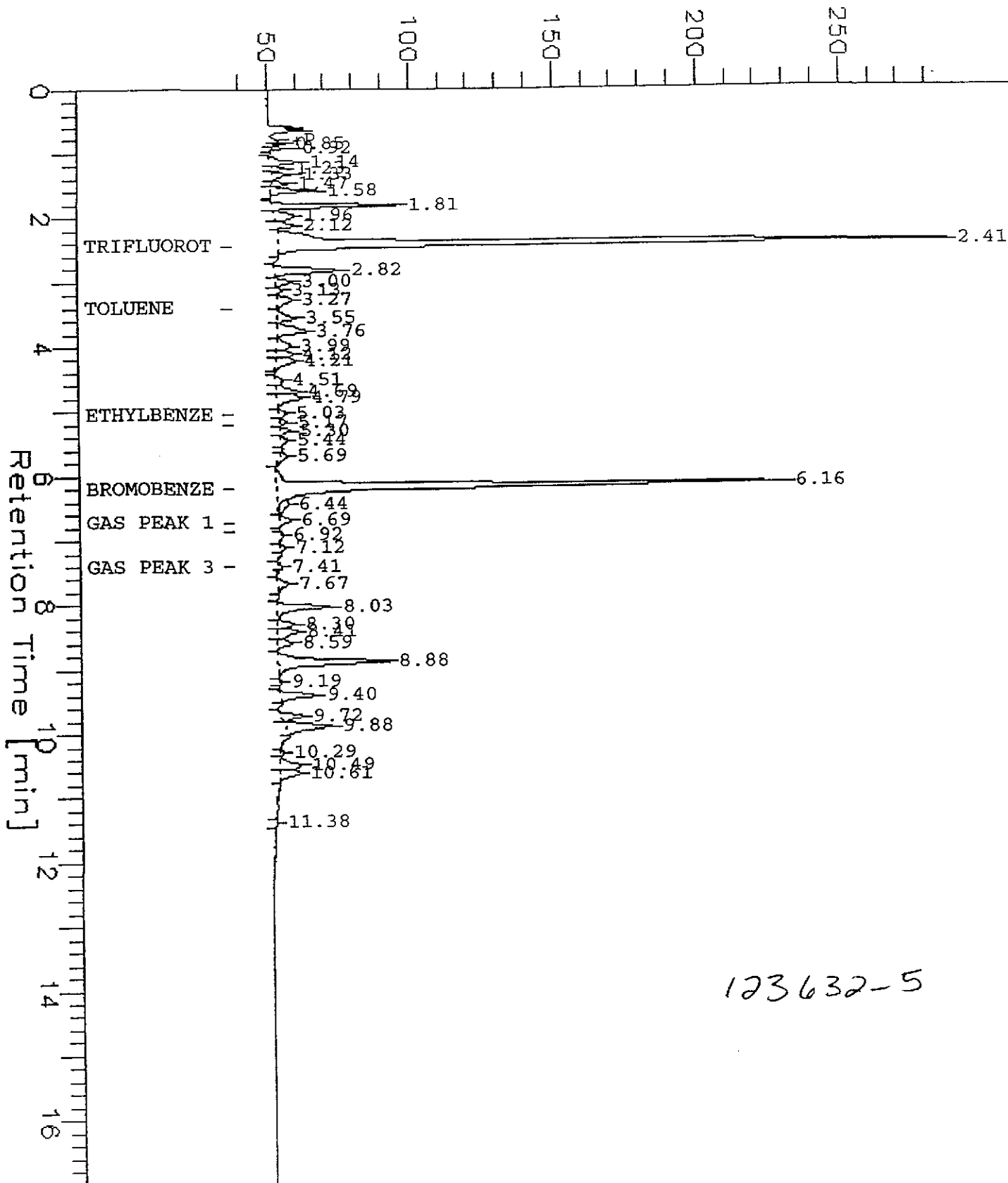
Plot Scale: 250 mV

Response [mV]



123632-3

Response [mV]



123632-5

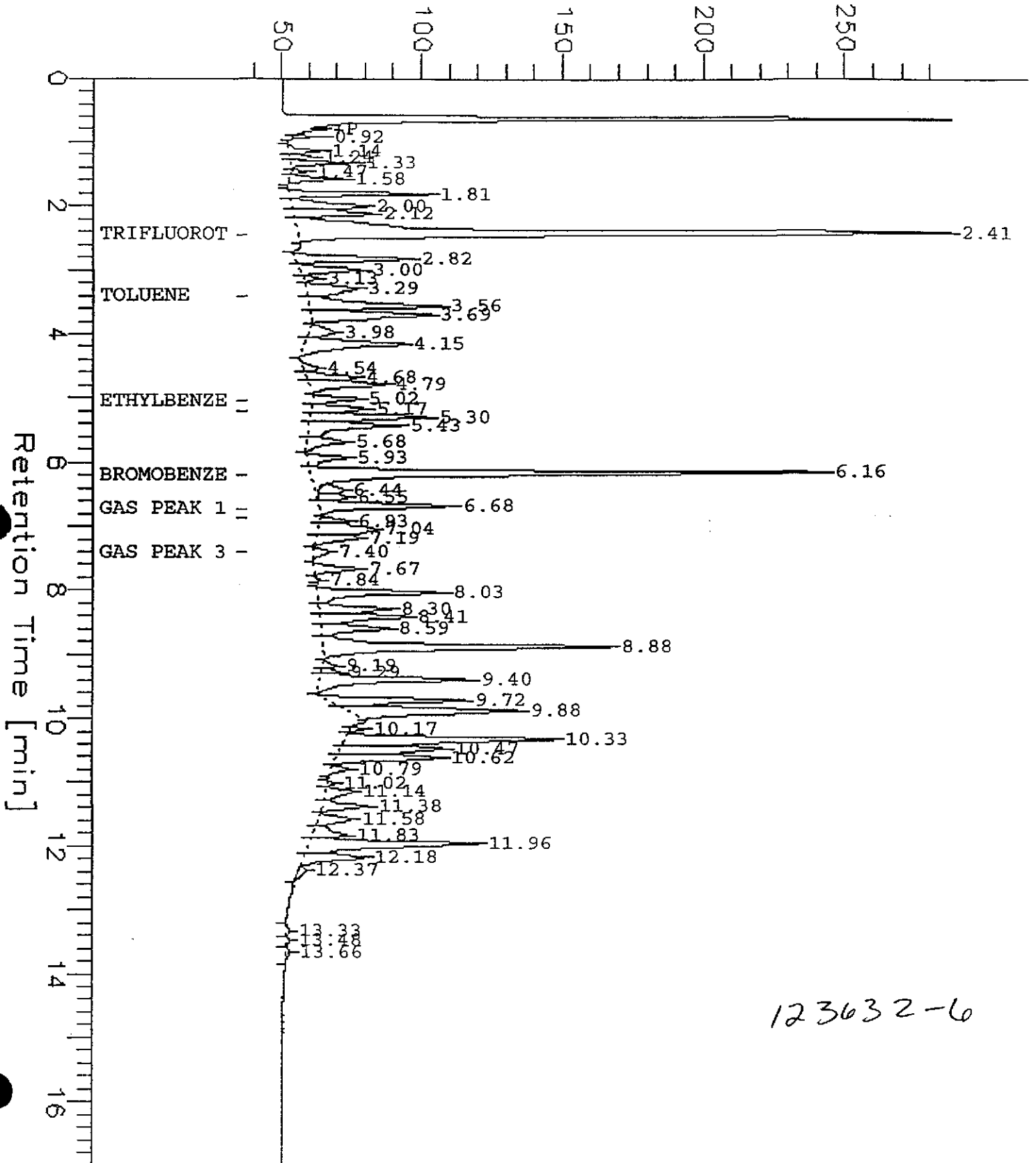
FileName : G:\GC04\341J046.raw
 Start Time : 0.00 min
 Scale Factor: -1

End Time : 17.00 min
 Plot Offset: 38 mV

Date : 12/8/95 11:45 AM
 Low Point : 37.98 mV
 Plot Scale: 250 mV

Page 1 of 1
 High Point : 287.98 mV

Response [mV]



123632-6

Response [mV]

